Land Records adminis.
report,
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LAND RECORDS ADMINISTRATION REPORT OF BURMA

2205/1942

FOR THE YEAR ENDING 30th JUNE 1910.

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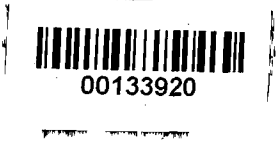

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RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1910

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LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDING 30th JUNE 1910.

CHAPTER I.

INTRODUCTORY.

1. *Work of the year.*—The year was not remarkable for large extensions of the area under Supplementary Survey. Such additions as occurred will be mentioned in their place.

(a) Area under Supplementary Survey.

Supplementary Survey in Pakôkku is still confined to the islands and an alluvial tract. The large area in this district of which the revenue settlement has just been completed will not come under Supplementary Survey until 1911-12.

Perhaps the most important event of the year was the publication of a Manual of Directions dealing with all branches of the work of the Land Records Department, except surveying which is dealt with in a separate Manual already published. The revised forms which had been prepared in connection with the Manual were not finally sanctioned until late in the year, and they will be brought into use in 1910-11.

(b) Manuals and Forms.

Satisfactory progress was made in the recruitment of the Gazetted Staff, and with the three probationers now in their first year of training at Dehra Dun the cadre is complete. Until the six recruits of 1908 have completed their whole course of training the deficiency of trained officers will continue to be felt. Meanwhile the Land Records work of three districts is under the supervision of Inspectors officiating as Myoôks, while in a fourth district, a Myoôk who was formerly a Land Records Inspector holds charge. The general revision of the Subordinate Establishment, which has been under consideration for more than two years, has now been completed and proposals were submitted to the Financial Commissioner in May 1910.

(c) Staff.

The cost of the Department in the Budget Estimates of 1909-10 was Rs. 17,08,870. This sum includes Rs. 1,70,400 for cost of Special Surveys, Rs. 44,100 for Survey Schools and Rs. 14,600 for training of Probationer Assistant Superintendents. From the total has to be deducted Rs. 32,000 for the administration of Settlements; Rs. 5,106 realizations on account of fees from Survey Schools and Rs. 39,758 on account of fees for *patta* surveys. The total nett cost of the Department without making allowance for pension and leave charges was thus 16⅛ lakhs equivalent to 5½ per cent. of the total revenue assessed by the Department.

(d) Cost of the Land Records Department.

CHAPTER II.

SPECIAL DEMARCATION AND SURVEYS.

2. *Demarcation preliminary to Survey, Statement I.*—Owing to the general restriction of special survey operations in the year, no demarcation work outside towns was undertaken anywhere.

3. *Revision Surveys by Special Staff, Statement II.*—The spread of cultivation continues, though not so rapidly as in past years, and in places is so extensive as to require the employment of special staffs in order to furnish correct maps

of altered features. During the year, owing to financial stress, operations had to be confined to districts where Revision Settlement necessitated immediate resurveys and was therefore restricted to three districts. The five years' programme of surveys in Akyab had to be stopped after only one year's work.

(a) Recess work connected with Revision Surveys of previous year.

The mapping and area work of the revision surveys executed by special staffs in the previous year were brought to a successful termination in the recess season of 1909 for the districts of Akyab, Amherst, Thatôn, Meiktila, Mandalay and Yamèthin. In Hanthawaddy, however, there were arrears which were finished in the opening months of the recess of 1910.

(b) Distribution of Revision Survey field work.

In Amherst, Thatôn and Yamèthin revision survey work was supervised by a special Superintendent of Land Records. In the remaining districts operations were supervised by the Local Superintendents. The Assistant Director examined survey work in all districts except Akyab, and found the work of high quality. During the year special revision surveys were continued in the Hanthawaddy and Yamèthin Districts, and to a small extent also in the Amherst District. No new work was started.

(c) Holding marking by Revision Survey Parties.

Last year an enquiry was started into complaints about defective holding marking by surveyors of revision survey parties. The enquiry showed that the surveyors did not make sufficient use of existing holding registers, and that their local knowledge was insufficient to ensure correct preparation of the holding record. In future holding marking will be left to the territorial surveyors on the Land Records staff. During the year of report holding marking was done concurrently with survey and holding areas worked out and traces prepared for the use of the Supplementary Survey.

(d) Revision Surveys in the Hanthawaddy District.

The year brought to a close the four years' programme of revision surveys in the Hanthawaddy District. The work lay in the three townships of the Insein Subdivision. The full programme was not completed owing to unexpected difficulties, though a fair season's work was accomplished. The balance of about 20,000 acres of cultivation will have to be gradually resurveyed by the local surveyors. The survey included an intricate piece of work in what is known as the Hlawga Lake area comprising nearly 12 square miles. This survey benefited the Rangoon Municipality alone and might have been excluded. The whole of this area was traversed, and the detail survey with contours, of somewhat more than a half completed. The balance of the detail survey is to be done next year. The entire cost of the cadastralsurve y should be borne by the Municipality; the portion of it met by Government amounts to Rs. 1,750. Field work was inspected by the Assistant Director who found it, on the whole, of good quality.

(e) Revision Surveys in the Yamèthin District.

Re-surveys by special agency in the Yamèthin District were continued in the Lewè and Pyinmana Townships. An excellent outturn was secured, with help from the local surveyors, but some 30,000 acres of cultivation remain unfinished. The Survey of India Training Camp accomplished the re-survey of about 2,500 acres of cultivation in the year, and may be expected to do as much next season. The surveys by the special staff were inspected by the Assistant Director and found to be more than ordinarily good.

(f) Revision Surveys in the Amherst District.

In Amherst revision surveys of about 5,000 acres (occupied) left unfinished by the special party of last year, was completed by a small special staff. Skeleton plots for the detail survey had been previously prepared by the special party. The work was checked by the Local Inspector of Land Records.

(g) Recess work of the current season.

The recess work of the surveys completed in the field season is now in hand, and good progress has been made.

(h) Future Revision Surveys.

Sanction has been received for carrying on revision surveys by small special establishments in 1910-11 in the districts of Kyaukpyu and Mergui.

4. *Extension Surveys by Special Staff, Statement III.*—Owing to unfavourable financial conditions no additional areas were surveyed by special establishments during the year.

(*a*) Recess work connected with Extension Surveys of previous year.

Maps and area calculations work relating to extension surveys of 1908-09 in Akyab, Sandoway, Tharrawaddy, Amherst and Thatôn were completed in the rains of 1909. Work was inspected by the Assistant Director in the three last-named districts, and was good in Tharrawaddy and of excellent quality in the other two districts where the work was in charge of a special officer. In Akyab the work is said to have been good, and in Sandoway it was fair.

(*b*) Future Extension Surveys.

A programme covering special surveys of three years to be supervised by the Special Survey Superintendent has been drawn up and approved by the Financial Commissioner. Proposals for commencing work in 1910-11 have been submitted but orders are awaited. Included in the programme of 1910-11 is a scheme for surveying about 30,000 acres of cultivation in the Myede Subdivision of the Thayetmyo District.

5. *Town Surveys, Statement IV.*—For want of funds several town surveys for which sanctions had been received had to be postponed. In only four districts, *viz.*, Amherst, Thatôn, Yamèthin and Magwe was any demarcation or survey work done in the year. For Moulmein town the scale adopted for the survey was 50′ or 100′ to the inch; and for other towns 64″ to the mile.

(*a*) Recess work connected with Town Surveys of previous year.

The office work of the town surveys completed in 1908-09 in the districts of Hanthawaddy, Tharrawaddy, Amherst (including Moulmein town), Pegu, Pakôkku and Mandalay was duly finished in the recess months. The map sheets and computations were examined by the Assistant Director for all the surveys except Pakôkku, and the work was found to be generally of a high order, more especially that of Moulmein town. Out-door work in Pakôkku town was inspected by the Commissioner of Settlements and Land Records and was on the whole good. The demarcation here was, under the orders of the Financial Commissioner, carried out subsequent to the survey by the Superintendent of Land Records with the assistance of the Town Surveyor. All but six blocks in the suburban area were done; the balance will be taken up next season.

(*b*) Moulmein Town Survey.

The bulk of the survey of Moulmein town was completed by a Special Party in 1908-09. The traverses of the entire town were done, but the detail survey of 2·05 square miles could not be finished for want of time. This balance was therefore executed in the year of report by a small staff in charge of the Local Superintendent of Land Records. The skeleton plots for the detail survey had been already prepared by the Special Party except for 0·39 square mile subsequently added to the programme. The survey of the residential blocks was on the scale of 50 feet to the inch and that of the agricultural blocks on that of 100 feet. The survey was examined by the Assistant Director who found the work generally of good quality. The demarcation which had been in progress for the two preceding seasons terminated in November 1909: but the Boundary Officer was another month closing his boundary proceedings and winding up the work generally. The demarcation was throughout in advance of the survey and was remarkably well done; and the demarcation maps were of great help to the surveyors.

(*c*) Thatôn Town Survey.

The two railway towns of Mopalin and Hninpalè and a small extension in Paung were demarcated and surveyed by a special staff. The advance demarcation was well done. The survey was examined by the Assistant Director, and was satisfactory.

(*d*) Yamèthin Town Survey.

Large scale surveys of Yamèthin and three other towns of the Yamèthin District had been proposed but were postponed for want of funds. Eventually the survey of Yamèthin town was allotted to the Probationer Assistant Superintendents of Land Records under training with No. 10 Topographical Survey Party. Demarcation was accordingly put in hand but proved defective when examined by the Commissioner of Settlements and Land Records. The defects were afterwards remedied under the supervision of the Assistant Director of Land Records.

(*e*) Magwe Town Survey.

The town of Magwe was demarcated in the year, and the demarcation of Yenangyaung had just been started when it was stopped by order of the Financial Commissioner. Survey had already been done, but demarcation was undertaken in order to legalise operations.

(*f*) Proposals for future Town Surveys.

In the Special Survey Superintendent's programme, to which reference has been made in paragraph 4 (*b*) of this report, proposals are included for the demarcation and survey of towns in the Yamèthin, Meiktila and Kyaukse Districts.

(*g*) Town Land Rolls.

In the Toungoo District the work of preparing Town Land Rolls was continued for Toungoo town by the Superintendent of Land Records, and was commenced in Shwegyin town by the present Township Officer, the former Township Officer having neglected it. Both the rolls and maps of Toungoo have been finished and it is believed also of Shwegyin. The Assistant Director examined the rolls of Kywèbwè town, which had been completed before, and found that it had been indifferently prepared ; but the requisite corrections have since been made. It is reported that most of the Township Officers of Toungoo who were entrusted with the preparation of the rolls did their work in a half-hearted way. The Divisional Commissioner rightly observes that such work should not be tolerated. In the Thatôn District Township Officers have in hand the Town Land Rolls and the connected Tenure Maps of the two towns surveyed in the year. For Moulmein town the preliminary entries in the Town Land Rolls have been completed in 11 out of 32 survey blocks, and the rest are in progress. Owing to a misunderstanding, no preliminary entries were at first made in respect to road areas, agricultural holdings and waste lands, but the omission is being supplied. The preparation of the roll of Town Lands and the colouring in of the tenure maps have not yet been taken in hand. The block traces for the tenure-records are in readiness for the entire town. The appointment of a Special Tenure Officer for the work is awaited.

6. *Fishery Surveys, Statement V.*—The demarcation and survey of fisheries are undertaken where it is desirable to subdivide or remodel existing fisheries or to form new ones, and where older surveys have become obsolete. Usually

(*a*) Methods of Demarcation and Survey.

Inkunwuns are employed to enquire into the working of fisheries, for demarcating boundaries and determining the positions of fixed obstructions, etc. These officers have in some cases been given small survey establishments to do the surveys independently of the Local Superintendents of Land Records, *e.g.*, in Pegu. This practice is, a mistake ; such surveys should be carried out by the Superintendent of Land Records under the control of the Deputy Commissioner, as has been done in Hanthawaddy and Mandalay. Figures for the last few years show that fishery surveys (including preliminary demarcation) have cost from 2 to 6 per cent. of the annual rental. Assuming that the maps remain serviceable for about 15 years, as they have done in many cases, this seems a reasonable amount to pay for a record which should be of great value for fishery administration.

(*b*) Recess work connected with Fishery Surveys of 1908-09.

The reduction and final preparation of the maps of the fishery surveys undertaken in 1908-09, in Hanthawaddy were completed during the recess, and the maps were duly printed. The reductions were chiefly to the 4″ scale; some smaller fisheries were reduced to the 8″ scale, while a few which were too small for reduction were left on the original scale of 16″. The map work was examined by the Assistant Director and found to be of very good quality.

(*c*) Fishery Subdivision in the Mandalay District.

During the year 58 old fisheries of the Mandalay District were subdivided into 180. The *Inkunwun* and his staff of surveyors were placed under the orders of the Superintendent of Land Records and very good work was done at small cost. All the fisheries were situated in the area under supplementary survey and with the aid of the *kwin* maps and existing fishery maps it was found practicable to subdivide the fisheries and to make new maps without new surveys. This was a creditable undertaking, well carried out.

(*d*) Fishery Surveys in the Pegu District.—

Fishery surveys in the Pegu District continued to be dealt with by a permanent staff consisting of an *Inkunwun* and two Inspectors. But as the establishment here is independent of the Superintendent of Land Records no account of the work done appears in the District Land Records Report.

(*e*) Future Fishery Surveys proposals.

In Tharrawaddy District the maps of 242 fisheries which were surveyed fifteen years ago are reported to be quite out of date owing to changes of limits and other causes, and a resurvey has been applied for. An *Inkunwun* was appointed to enquire into the working of the fisheries and to demarcate them for survey. This has been completed but the necessity for resurveys is still under discussion. The local officers hold that resurveys are required and the Commissioner of Settlements and Land Records endorses their views. Proposals have been prepared for fresh surveys in the Henzada District, but these proposals have not passed through this office.

7. *Patta Surveys by Special Staff, Statement VI.—Patta* surveys are paid out of fees previously collected, and are thus independent of financial considerations except of adequate budget provision. The granting of *pattas* is confined to Lower Burma, but their issue is for the present suspended in the whole of the Pegu and Irrawaddy Divisions, and the order of suspension now also applies to the Amherst and Toungoo Districts of the Tenasserim Division. Leases for ordinary or special cultivation may be issued throughout the Province.

(*a*) Distribution of *patta* surveys.

During the year *patta* and lease surveys by special staffs were conducted in ten districts in all. In the Arakan Division the work was energetically prosecuted, good results were obtained, and the arrears there have been practically wiped out. In Hanthawaddy the survey relates solely to leases for the cultivation of rubber and castor-oil plant, the applicants being mostly Europeans and Chinese residents of Rangoon. In Thatôn the surveys included, besides several comparatively small leases, for rubber cultivation, a large allotment of 3,000 acres in the unsettled tract for a Chinese merchant of Rangoon. In Mergui 26 leases for rubber cultivation with an area of 20·440 acres were surveyed. In Tavoy, too, rubber cultivation leases are extending fast. In Mandalay the leases relate to rice cultivation chiefly. In Pakôkku three mineral oil leases, aggregating 80,000 acres, were surveyed for oil companies; both in Pakôkku and in Tavoy the cost of survey has not been given, nor has the amount of the fees realized been stated in the case of Pakôkku. A large number of pending cases still await survey in Mergui.

(*b*) Demarcation prior to *patta* surveys.

Demarcation of lands applied for in *patta* or lease was ordinarily done by the applicants prior to survey. It is not certain that this rule was always carried out in the case of areas proposed for rubber growing in Mergui. In Sandoway 28 applications were rejected for want of proper demarcation.

(*c*) Fees realized for *patta* surveys.

The fees realized on *patta* applications have generally been in excess of the cost of survey. In Akyab, Kyaukpyu and Mandalay the statement shows costs in excess of fees. In Akyab and probably in Mandalay the explanation of this excess is that part of the fees were collected in 1908-09. In Kyaukpyu the survey disbursements are swelled by the inclusion of payments for survey work of 1908-09. Many of the payments of that year having been deferred pending inspection by Township Officers. Such delay in payments to the staff is unfortunate. Although it may not be possible to determine the full amount due for survey charges until the work has been verified by the revenue officers, the expediency of disbursing a portion of the charge immediately the work is completed might be considered. In Mergui the amount realized for fees is enormously in excess of survey disbursements. This is apparently due to the fact that the present rate produces too high a fee on large areas although for a small area it may be inadequate. The revision of the present uniform rate and the substitution of a proportionate scale is under consideration. In Hanthawaddy the cost of the survey amounted to 45 per cent. of the fees collected. The survey establishments were paid at all centres on the contract system, except in Hanthawaddy where some of the men were in receipt of regular pay.

The rate per acre levied as fees for survey is annas 8. The exceptions to the rule occur in Thayetmyo where it is annas six, and in Mergui where there are rates of annas twelve and a rupee. The surveys were inspected in most cases by the Township Officers and the Inspectors of Land Records, and in Hanthawaddy, Thatôn and Mergui some inspection was also done by the Superintendents of Land Records. The surveys are reported to have been on the whole promptly and well done.

(*d*) Employment of *Patta* Myoôks.

No special *Patta* Myoôks for the disposal of grant cases subsequent to survey were appointed. *Patta* proceedings were attended to by the respective Township Officers themselves, without outside aid. Specially good work in this direction was performed in Akyab. Amherst also cleared off arrears, but in Sandoway there are yet 21 cases under enquiry. The necessity for dealing with cases promptly cannot be too strongly urged as delay is unfair to the Surveyors.

(*e*) Survey and allotment of agricultural lands in the Môn Canal area of Minbu.

The work of survey and allotment of leases in the Môn Canal area of the Minbu District was discontinued for want of funds in the year of report. Proposals for proceeding with the work have been submitted. The area remaining for survey is estimated at 15,000 acres, and it is proposed to place the survey operations in charge of the Special Survey Superintendent.

CHAPTER III.

SUPPLEMENTARY SURVEY WORK.

Area under Supplementary Survey.

8. *Area under, and cost of, Supplementary Survey, Statement VII.*—In the decade now completed the total area under supplementary survey has grown from 29,870 square miles to 48,484 and the occupied area from less than 8½ million acres to nearly 16 million acres. In the year under report there were large additions of rural areas in Amherst (283 square miles) and in Akyab (106 square miles) where special temporary staffs had been engaged in extending the cadastral survey. There was a smaller addition in Tharrawaddy (26 square miles) where new tracts had been surveyed. In consequence of the notification of Forest Reserves in the Magwe District the area for which the Land Records Department is responsible in that district has been diminished by 52 square miles. The Returns of the Lower Chindwin District show an extension of 34 square miles, which is explained as due to the correction of the Return by including jungle areas in certain *kwins* wholly or partly included in "Reserved Forests." As the Forest Department makes its own arrangements for surveys, the area actually included in the Forest Reserves might be excluded from the *kwin* maps and area statements as appears to have been done in Magwe.

The Returns show an increase from 170 square miles to 208 square miles of the area of urban land under supplementary survey. In many cases, however, as will be explained in paragraph 12, supplementary survey cannot be said to have been effectually begun.

The Returns of occupied and assessed areas in rural lands have been fully discussed in the Season and Crop Report. The revenue assessments will be discussed in the Land Revenue Administration Report. The figures are introduced in this report only to illustrate the results of the work of the Land Records Department. The revenues assessed by the Department have grown during the decade ending with 1909-10 from about 181 lakhs of rupees to nearly 294½ lakhs. The surveyors in charge of the supplementary survey in towns in many cases assess or furnish the data for assessing such Municipal taxes as are assessed upon the areas of house sites. This Municipal revenue is not included in column 13 of Statement VII.

Cost of Supplementary Survey.

9. *Cost of Supplementary Survey, Statement VIII,*—which is in a new form, shows the whole cost of the District Land Records establishments, *i.e.*, of all the Surveyors engaged in supplementary survey both in rural tracts and in towns,—whether

on the regular establishments (Revenue Surveyors) or employed under *taik-thugyis* and paid by deduction from the commission of the *thugyis* (*taik-sayes*),—and of the Superintendents, Inspectors and office establishments. The total cost was increased by additions to the establishments of Revenue Surveyors in Thatôn, Toungoo, Amherst and Shwebo. These additions were made in consequence of extension of survey or of expansion of cultivation within the areas already under supplementary survey. It is rather the inclusion for the first time of the town surveying establishments with their comparatively small areas and revenue assessments which has resulted in the apparent increase of cost of the district staff of the whole Province from 1·38 annas to 1·43 annas per occupied acre.

10. *Supplementary Survey, Rural, Statement X.*—does not fulfil its purpose of showing the survey work done by the regular staff in all districts for the purpose of keeping the maps up to date. Fuller instructions will be issued for the preparation of this statement in future years.

(*a*) Survey of Grants and Leases.

The grants and leases shown in the first section of the statement refer probably in most cases to urban lands. The survey of rural lands for grants and leases in Lower Burma is usually made by Surveyors temporarily engaged for this work, who are not reckoned in the regular staff of the district. By recent orders of Government the issue of grants for paddy cultivation has been discontinued in the Pegu and Delta Divisions and in Toungoo and Amherst.

(*b*) Re-surveys and Extension Surveys.

Large areas of re-survey and extension surveys by the regular staff are reported by Pegu, Myaungmya, Toungoo, Thatôn and Mandalay, and considerable areas, though smaller in proportion to the numbers of the establishments, by Hanthawaddy and Shwebo. This work is creditable to the Superintendents of Pegu, Maungmya and Toungoo where the work was done without extra expense. In Mandalay the credit is diminished by the fact that three extra surveyors have been entertained for this work. In the case of Thatôn the work of two extra Surveyors entertained for extending the survey in unsettled tracts is included in Statement X. These men made very poor progress, which may be excused to some extent by the difficulty of communications. The rest of the staff appears to have worked energetically at this important part of their duties, though the Superintendent mentions that two of the Inspectors failed to give him proper assistance. The large area reported from Pakôkku is explained by the fact that the Land Records staff has not yet undertaken assessments except in the islands and the alluvial tracts, and was engaged (besides helping the Settlement Party) in revision of maps. The second section of the statement is intended to exhibit only areas wholly surveyed or re-surveyed, and is not to include partial surveys of interior boundaries. Several districts make no return in this part of the statement. The Deputy Commissioner, Magwe, omitted 6,500 acres of new survey, and 6,917 acres of re-survey from the statement on the ground that the areas surveyed were small and scattered over the district. The returns of the other districts of Upper Burma are, perhaps, defective for the reasons mentioned by the Deputy Commissioner, Magwe. It is hoped that more complete returns will be furnished next year. The work of the two extra surveyors who have been entertained since 1906 for the survey of extensions of cultivation in Katha has been found to have been insufficient in quantity and bad in quality, and the Superintendents who have held charge are to blame for the want of effective supervision. In Kyauksè also three extra surveyors were employed with poor results. The results shown by Prome, Tharrawaddy, Ma-ubin, Bassein, Thayetmyo and Mergui appear to be insufficient. The Superintendents of these districts should pay more attention to this work, and any deficiency in their returns should be explained in future reports.

(*c*) Holding surveys of impermanent island cultivation.

The third section of Statement X is intended to show surveys of island or alluvial lands which require to be re-surveyed every year. In some cases printed maps of the islands exist, though the holdings (or those of them which are obliterated

by the annual inundations) are not shown; the expression "in unsurveyed tracts" in the heading of this section is therefore misleading and will be altered. The Deputy Commissioner, Minbu, reports that he found the survey of cultivation on an island inspected by him unsatisfactory. He remarks:—"Perhaps if conscientious and skilled surveyors were to be appointed, more satisfactory results might be obtained; but under the present system by which this extremely important work is left in the hands of raw apprentices, the arrangement both as regards allotment and assessment can only be regarded as deplorably unsatisfactory". The Deputy Commissioner's reference to "allotment" is not understood. Revenue Surveyors are not concerned with the allotment of island lands. The Deputy Commissioner's remarks, however, are not generally applicable to the survey and assessment of island cultivation. Recent reports indicate some inefficiency in the supplementary work of his district and it is possible that the case he mentions was due to the defects of supervision which are discussed in his report.

Necessity for more revision survey by local survey staff.

11. *Areas requiring re-survey.*—The programme of revision surveys (Appendix B of the district reports, which is not printed) is a new Return, and has not been understood by some of the District Officers. The facts which it is intended to exhibit are of the highest importance, and properly illustrated, should be an index of the efficiency of the district staffs. The *Mayin* (spring rice) assessments in districts of Upper Burma are confined to certain localities, and give only partial occupation to a portion of the district staff. The Revenue Surveyors therefore both in Upper Burma and in Lower Burma after the submission of the assessment rolls relating to the winter crops in February have two or three months practically free from other duties during which they can attend to the survey of extensions of cultivation and alterations of boundaries. The accepted standard of work for a Surveyor where the area for survey is continuous is 500 acres a month. Where (as must often be the case in revision survey) the areas to be surveyed are small and scattered, a lower rate of progress must no doubt be expected. But if the surveyors are kept strenuously at work during the months from February till the beginning of the rains a very large amount of surveying can be accomplished; and an energetic Superintendent ought to be able to keep the survey up to date with the regular Revenue Surveyors of the district staffs, except in exceptional circumstances of very rapid extension of cultivation. The possibility of this is proved by the achievements of the staff of the Pegu District, where in spite of the very large areas which required to be resurveyed, the Superintendent (Mr. Beechey) has kept well abreast of the work, and considers the entertainment (which was recommended by Mr. Gibson, late Superintendent of Land Records) of a staff of unattached Surveyors for revision work to be unnecessary. The entertainment of extra Surveyors without local charges for the revision of surveys in the nine districts of Lower Burma where extension of cultivation is most rapid has been approved by Government, but has been delayed for want of funds. It is not intended that these additional surveyors should relieve the regular Revenue Surveyors of their obligations in respect of Supplementary Survey and those Deputy Commissioners who have submitted no programme, or an inadequate one, of work for the local staff while reporting large areas as requiring to be resurveyed by a special staff will be called upon to submit revised programmes, which the Superintendents will be expected to work up to in future years. Akyab, Kyaukpyu, Sandoway, Tharrawaddy, Ma-ubin, Pyapôn, Toungoo, Thayetmyo, Kyaukse and Shwebo all appear to rely unduly upon extraneous assistance, and the Deputy Commissioners will be asked to reconsider their programmes. The Deputy Commissioner, Katha, appears to have omitted to submit his programme for surveys by the Revenue Surveyors owing to a misunderstanding of the instructions. In the dry districts of Upper Burma generally the circumstances are different from those of districts where population and cultivation have been rapidly and continuously increasing. The cropped areas in dry upland cultivation sometimes require constant remeasuring from year to year, but large extensions of the occupied area rarely occur and extensive alterations of permanent boundaries are not generally necessary. The alterations due to irrigation are exceptional. In Magwe, therefore, where the

annual supplementary survey is believed to have been efficiently carried on, and perhaps in some of the other districts of Upper Burma, which have reported no figures for Appendix B, a programme of revision survey is probably not necessary. "Sagaing, Myingyan, Yamèthin, Kyauksè and Mandalay report large areas as requiring re-survey. The extent of these areas demands enquiry and will receive attention." There is reason however to believe that the maps of many upland *kwins* in the dry districts particularly in Myingyan, Yamèthin and Meiktila, are now defective both as regards the boundaries of cultivation and as regards the record of possession. In the upland parts of these districts the assessments are very low, and economical administration requires that the numbers of Surveyors in proportion to the areas assessed shall be less than in tracts which bear high rates of revenue. The arrangements for reporting changes of possession have not been effectively carried out. Where the individual sums are small and in primitive villages where disputes about land do not occur, or are not taken to the Courts, the cultivators do not take the trouble to bring errors to notice. The numerical weakness of the staff and the apathy of the cultivators, which are the peculiar difficulties of supplementary survey in the dry districts may account for the comparative inefficiency of the work of those districts. But it must be added that none of the districts in question has had the advantage of several years of supervision by an experienced and zealous Superintendent. In the adjacent dry district of Magwe, Mr. Baker, with a numerically weak staff has found it possible to maintain the supplementary survey in a satisfactory manner. The difficulty of maintaining an efficient supplementary survey in these districts under the inevitable circumstances of changing and some times inexperienced supervising officers is comparable to the difficulty of keeping pace with the extension of cultivation in some districts of Lower Burma. In both cases it is believed that economy as well as efficiency will be best served by avoiding the necessity of occasional re-surveys by temporary extra staffs. The expense incurred on account of these occasional re-surveys of large areas (see Chapters I and II) has been in former years very large. In Lower Burma the difficulty diminishes with the retardation (which has appeared in recent years) of the expansion of cultivation; and it is hoped that the scheme which has been alluded to above, of attaching a certain number of Surveyors without local charges to the district staffs to be employed in revision of the survey, will effect the purpose of making the occasional employment of large temporary staffs unnecessary. For the same end in the dry districts of Upper Burma where there are arrears of supplementary survey it is now proposed to adopt, and the Financial Commissioner has agreed to recommend to Government, a scheme suggested by Mr. Keith, who is now conducting Settlement operations in Meiktila. The principle of this scheme is that supplementary survey should be discontinued in remote tracts where the proportion of cultivated to uncultivated land is low and the revenue demand is very small. Assessments in these tracts will be fixed at an annual sum for each *kwin*, and this sum will be distributed by the cultivators among themselves after the manner of the *Thathameda* assessments. "Mr. Furnivall, Settlement Officer, Myingyan, has while this report was under preparation suggested a modification of Mr. Keith's scheme. His proposal is that supplementary survey should not be discontinued in any tract which has been cadastrally surveyed; that the system of fixed assessment should be applied to large portions of the Myingyan district and not only to remote tracts, and that the Land Records Staff should be relieved in these portions of the district of much of the work connected with the calculation of the assessment on individual cultivators. Mr. Furnivall further proposes that the revenue demand should be fixed for each village tract rather than for each *kwin* and that the Deputy Commissioner should have authority (as in the case of the *thathameda* tax) to vary the distribution of the total demand among the village tracts. The improvements to which Mr. Furnivall's modification is directed are (1) that the village assessors would be able to deal with the case of relative increase or decrease in the number of holdings in adjacent *kwins*, and the district officers would be able to make adjustments required by larger changes of the same nature, and (2) that the time now devoted by the Land Records staff to individual assessments would be available for supplementary survey and for making more trustworthy

statistics of crops and areas and (3) that these more accurate statistics would be available when the time comes for revising the fixed assessments. The statistics would be of value also as making the provincial returns more complete and in connection with the system of famine intelligence.

12. *Supplementary Survey in Towns.*—Statement VII, shows that supplementary survey has been started during 1909-10 in 59 additional towns. The work in towns, however, still remains in a backward condition, and the progress made since many of the towns were surveyed in 1905-06 and the following years has been disappointing.

(*a*) Towns under Supplementary Survey.

The new printed forms for the annual registers were not available till the end of the year. In many of the towns no registers are maintained, and the work of the surveyors is limited to the preparation of an annual map and area statement. In a few towns annual registers are maintained in obsolete forms, and in Hanthawaddy and Amherst it is reported that the new forms were printed at private Presses and brought into use. Many of the towns now coming under supplementary survey having been surveyed some years ago, and the annual maps and area statements not having been prepared in the interval, the work now starts in arrears. The delay in the issue of the forms for the registers is not a sufficient excuse for the omission to keep the survey up to date by annual maps and area statements. In Rangoon, though the Surveyors of the Town Lands staff have nominally undertaken supplementary survey since 1907, owing to insufficiency of the staff there has been hitherto no general and systematic annual revision of the maps. The proposal mentioned in last year's report for an increase of the staff in order to enable the Registrar of Town Lands to maintain an efficient supplementary survey has been submitted to Government. Of Mandalay, where also the supplementary survey has been in operation under a Superintendent of Land Records for several years, the Commissioner of the Division, who had paid special attention to the matter writes "the management of Town Surveys in Mandalay has improved, but is not yet as good as it might be. It is still extravagant and lacks efficiency." The work in the towns of the Katha and Minbu Districts also is favourably reported upon. In many towns the Surveyors have not yet taken over the preparation of rent or revenue rolls or of the data required for Municipal assessments.

(*b*) Delays in supply of register forms and in starting Supplementary Survey.

It is understood that Government has agreed to abandon the system of recording changes of ownership or occupation as they occur from time to time in a Permanent Roll of Town Lands. The annual registers, for which the forms have now been issued, will become the substantive record. The original Roll of Town Lands which contains the first complete record of tenures will remain in the Record Rooms like the Settlement Registers of rural tracts. In those towns where the Roll of Town Lands has not yet been completed, it will not be necessary to await its completion before bringing the new annual registers into use. When the roll is completed the annual registers can, if necessary, be corrected.

(*c*) The roll of Town Lands and Annual Registers.

Orders have been issued that wherever a town is not large enough to occupy the whole time of one or more Surveyors the Surveyor shall ordinarily be given charge of adjacent rural areas in addition to the town, instead of being employed exclusively on town work in two or more towns. In the Prome District, the Deputy Commissioner considers it more convenient that the Surveyors in charge of towns should do no rural work: and where there is quick and easy communication between the towns, it is possible that this arrangement may be preferable. In Magwe, however, there are three towns separated by long journeys, and all three remain in the charge of a single Surveyor. It was the circumstances of this district which gave rise to the recent order. The Deputy Commissioner explains that the necessary re-arrangement of charges cannot be carried out until the staff of the district is strengthened, but

(*d*) Composite Surveyor's charges, partly urban and partly rural.

re-arrangement does not seem impossible The order, so far as the reports show, appears to have been complied with in most of the districts : but in Tavoy and Ma-ubin the re-arrangement has been long delayed.

(e) Assessment Rolls in Towns.

The Deputy Commissioner, Toungoo, writes that as assessment rolls for land rate in lieu of capitation-tax are due on the 1st August and the Rolls of Town Lands Rents in January and those for Municipal assessments and land revenue in January and February, the Surveyors in charge of supplementary survey in towns have little time for map work. But the several assessments in towns do not (like assessments of several seasons in rural areas) require special visits to the land for each assessment. The registers in the new forms will be prepared once only for all the assessments of the year, though they may be corrected from time to time during the year.

13. *Preservation of Permanent Survey Marks.*—For the first time the District Officers have attached to their reports a statement (which is not printed) showing the inspections of permanent survey marks and of boundary marks. In Tharrawaddy the Surveyors inspected less than one-fifth of the marks in the *kwins* or blocks visited, and in ten other districts a large proportion of the marks in the *kwins* visited were left uninspected. In six districts the Surveyors are reported to have inspected every mark in all the *kwins* visited. The Inspectors frequently appear to find a larger proportion of marks unprotected or broken or lost than the Surveyors, and this, as the Deputy Commissioner, Myaungmya, observes, throws some doubt upon the correctness of the Surveyors' returns. When the Inspector finds that a Surveyor has reported incorrectly about a mark which the Surveyor professes to have inspected, the matter should be specially reported to the Superintendent. There is again evidence of remissness in replacing marks. Kyaukpyu returns 406 marks replaced, and Henzada, Magwe and Shwebo each return between 100 and 200 marks replaced. In Sandoway and Prome no marks were replaced though many were lost. In Pyapôn zinc pipes were found to be corroded owing, it is supposed, to the saltness of the soil.

(a) Inspection and replacement of marks.

(b) Boundary marks in Towns.

The Directions in Chapter XII of the Land Records Manual contemplate the inspection and preservation of boundary marks which have been ratified under the Burma Boundaries Act in towns. These marks include the pipes which in some towns are placed at all the corners of private holdings. These pipes are very numerous and it is doubtful whether they can be inspected and protected in the same way as permanent survey marks; their preservation except when they mark the boundaries of public roads or other lands appropriated to public uses is not of such direct advantage to the State. The amendment of the directions on this point will be considered. The Collector, Rangoon Town, is of opinion that the boundary marks of plots leased or granted by Government from time to time as well as those which have been ratified by the Boundary Officer ought to be inspected and preserved in the same way.

14. *The Preparation and submission of Assessment Rolls.*—Eighteen districts report unpunctuality in the submission of Assessment Rolls. In Hanthawaddy, Toungoo, Minbu, Magwe, Mandalay, Yamèthin and Myingyan, the delays were considerable. In Katha a marked improvement is reported in this respect, and no rolls were late. In some cases the delay is due to the time required by the Superintendent for his check of the rolls. It is important that the Superintendent's check should not be unduly hurried. A number of cases of erroneous assessment due to imperfect checking of the assessment rates in the rolls by the Superintendent at the time of signing them has recently been reported. By an amendment of paragraph 530 of the Land Records Manual, Surveyors are required to complete the assessment rolls *kwin* by *kwin* in the field except when second visits have to be made. It is possible that fewer delays

Delays in submission of Assessment Rolls.

and more accurate checking would result if Superintendents insisted upon the rolls being sent to them singly or in batches without waiting till the whole of the rolls in each Surveyor's charge are ready (paragraph 535).

15. *Miscellaneous Duties of the Land Records Staff.*—In Sandoway only 53 holdings were inspected in unsettled tracts. In Toungoo the District Surveyor visited only 12 *kwins*. In Tharrawaddy no checking of *thugyis'* assessments appears to have been done. In Pakôkku no attempt was made to check the assessment of State lands which are made without measurements by Headmen and *Thamadis*. In all these districts this work requires the attention of the District Officers. The reports of Shwebo (where the unsettled area is very small) and of the Upper Chindwin give no account of any check of assessments outside the settled *kwins*.

(*a*) Checking of *Thugyis'* assessments in unsettled tracts.

The checking of the receipts in the hands of the cultivators is insufficient in Meiktila, the Lower Chindwin, Mergui and Sandoway. The rarity of substantial errors, and of any fraudulent alteration of the receipts by the Revenue Collecting Headmen is remarkable. Only one serious case of alteration or forging of receipts is mentioned in the reports and that was the work of persons whose object was to obtain an advance of money in Rangoon by exhibiting forged revenue receipts as evidence of the possession of land.

(*b*) Land Revenue Receipts.

Some progress has been made in improving the demarcation of grazing grounds in Akyab, Prome and Pegu. But little or nothing was done in Hanthawaddy, Ma-ubin, Pyapôn, Bassein, Thatôn and Tavoy. In Thatôn longstanding encroachments upon grazing grounds are attributed to genuine ignorance of the boundaries and collusion by the Revenue Surveyors. In Pyapôn a number of encroaching cultivators were evicted, but could not be prosecuted owing to insufficient demarcation. In Pegu again a large number of prosecutions failed owing to defective demarcation. The number of prosecutions in Myaungmya appears to be quite exceptional and the fact that 148 prosecutions resulting in 81 fines and 14 sentences of imprisonment were necessary after the numerous penalties including imprisonments imposed by the Courts in the two preceding years seems to require special explanation, which will be called for. In some cases the cause of delay in erecting posts or pillars is said to be the difficulty of obtaining the necessary budget grants in the straitened condition of the provincial finances. In Myaungmya the Deputy Commissioner has undertaken the simplification of the boundaries and the removal of unnecessary angles with a view to cheapening the cost of a permanent demarcation with reinforced concrete pillars.

(*c*) Grazing grounds.

In several districts the lists of unauthorised alienations prescribed in paragraph 590 of the Land Records Manual have not been prepared and the work of instituting proceedings against alienees appears to have been left to the Revenue Surveyors. The Revenue Surveyors are not in a position, except in the case of grant lands to know from the records in their possession whether a right of alienation has accrued or not. In Bassein, perhaps for this reason, proceedings appear to have been instituted only in respect of grant lands. In Thatôn under "a local order" the grounds of which are not explained, only holdings of 10 acres and over are investigated. To prepare these lists efficiently an investigation of the "history of the land" in the record-room is required. In some of the districts of the Delta temporary clerks are employed for this work, and the investigation is estimated to occupy the clerk on an average an hour to each holding. As no action is taken in those cases in which the alienees are agriculturists, this system is unnecessarily laborious and expensive. Land is said to have been resumed "in several instances" in Tharrawaddy, and "in most cases" in Pegu. But in most of the District Reports there is no information as to the number of cases in which the reports of unauthorised transfers sent in by the Land Records Department result in evictions and re-allotment of land. It is desirable that Superintendents should be supplied with this information in respect of the annual lists which they are required to submit, both in order that they may see the effect of the work, and in order that they may

(*d*) Unauthorized alienations.

verify that land resumed by order of Revenue Officer is not (as has been known to happen) assessed at the following assessment in the name of the person ordered to be dispossessed.

(e) Topographical Maps.

A public service which does not receive sufficient attention in many districts is the correction of the topographical maps of the Survey of India. Instructions for this work are contained in Chapter XI of the Land Records Manual. Owing to extensive re-surveys and also it is feared to neglect of the arrangements prescribed considerable expense has lately been incurred at Ma-ubin in making the corrections which were in arrears. In Minbu the Deputy Commissioner reports that the main channels of the Môn Canals which have been in existence for several years have not yet been drawn even in the 16-inch assessment maps. Toungoo reports that no topographical change of any importance was noticed and that no alterations have been plotted on the topographical maps. It is difficult to believe that in a progressive district no changes of any of the nine classes mentioned in paragraph 704 of the Manual should have occurred during the year. In Katha the Superintendent has not yet begun to make corrections because all the sheets in which the district is contained have not yet been published. There is no reason to wait till all the sheets are published, even if it is certain that all the remaining sheets will be published. In Tharrawaddy, Bassein and Meiktila this work has not been done, and the reports of several other districts make no mention of it.

(f) Attendance of Revenue Surveyors in Courts.

The Deputy Commissioner, Prome, reports that no fewer than 2,000 summonses and notices to Inspectors and Surveyors passed through his office. The Deputy Commissioner, Myaungmya, also comments upon the time of Revenue Surveyors being taken up by Revenue Officers and Courts. In regard to revenue cases he remarks that the Revenue Surveyors commonly neglect to mark the area cultivated in unassessed grant lands, and when a dispute arises this omission occasions a special visit to the land. In such cases the remedy lies in the hands of the Land Records staff. In cases where the Revenue Surveyor is summoned, as is sometimes the case, only for the purpose of producing maps and area statements, the contents of which can be proved by means of certified copies, the Court should be moved to put a stop to this practice.

16. *Inspection of Supplementary Survey Field Work, Statement IX.*—The total number of *kwins* inspected (according to the returns) is slightly less than last year, but still nearly three-fifths of the total number of *kwins* under supplementary survey, one-third being the prescribed *minimum*. An examination of the figures, however, indicates that in the case of some districts when a *kwin* has been inspected by several officers or at more than one of the assessment seasons it is counted in the total in column 14 of Statement IX as more than one *kwin* inspected. Thus, in the case of Kyaukse, Minbu and Thayetmyo, the number of *kwins* inspected according to the Return is greater than the total number of *kwins* in the district. In these cases the Return does not indicate how many *kwins* were left uninspected during the year. The instructions will be made more explicit on this point. In the Returns of Amherst and Meiktila, which show the lowest proportion of *kwins* inspected, it does not appear that single *kwins* have been counted as more than one *kwin* in column 14 of the statement; and it is satisfactory that the number of *kwins* inspected in these districts is well above one-third of the whole number of *kwins*. In Sandoway as in the preceding year the inspections both by the Superintendent and by the Inspectors were comparatively few. In Pakôkku the Inspectors did on an average fewer inspections than in any other district, and it does not appear that these men were fully employed. In Ma-ubin the Superintendent, Mr. C. H. O'Hara, did fewer inspections than any other Superintendent, and the average number of inspections in this district by the Inspectors was considerably less than in most districts of Lower Burma. The Deputy Commissioner ascribes the inferiority of field work in the district, which he had observed, to insufficient supervision. Prome shows the largest number of inspections by a Superintendent and largest average by Inspectors of the

(a) Inspections by the Land Records Staff.

districts of Lower Burma. Tharrawaddy, Myaungmya and Thayetmyo also show high averages of inspections by Inspectors. In Upper Burma, Kyauksè (Mr. W. F. Ripley) returns the largest number of inspections by a Superintendent and (except Minbu and Meiktila) the largest average (148) of inspections by Inspectors. The average of the Inspectors in Minbu according to the returns is 59 more than in Kyauksè, the third highest average. The Deputy Commissioner of Minbu thinks that the inspection notes of the Superintendent are in many cases perfunctory: but he does not express an opinion on the thoroughness of the numerous inspections of the Inspectors. Ten Deputy Commissioners did no inspections during the year. Subdivisional and Township Officers did no inspections in Myaungmya.

(*b*) Inspection by District Officers.

The whole staff of District Officers in Myingyan under Mr. Tuck has applied itself to the improvement of the work of the Revenue Surveyors, and, in spite of a numerically weak staff, this vigorous supervision will no doubt have its effect in improved efficiency. In Meiktila, Sagaing and Shwebo the District Officers have done a satisfactory number of inspections and it is hoped that these officers will receive due credit for their zeal.

(*c*) Errors discovered.

There are a number of discrepancies and anomalies in the Returns relating to errors which are printed in Statement IX. The proportion of holdings inspected in which errors are found is in these Returns about 22 per cent. while in the previous year's Returns the proportion was only 17·5 per cent. It is certain that these figures do not correctly represent the quality of the work inspected. Six districts (not counting Rangoon Town) report no errors in crop-marking. As fallows came under this head it is unlikely that no errors were discovered. The Deputy Commissioner, Henzada, reports that of the extensions checked 62 per cent. were found incorrect and that of the fallows checked 39 per cent. were incorrect. If these figures are correct they indicate extraordinarily careless work. Henzada shows no errors in the Statement under the head "Crop-marking". The anomalies may be to some extent explained by the omission of some Inspecting Officers to record the holdings found correct. The possibility of making these Returns of errors more intelligible will receive attention. Shwebo, Kyauksè, Meiktila, Bassein, Hanthawaddy and Myaungmya show large alterations of the revenue demand as the result of inspections. In Shwebo serious errors were brought to light by the Irrigation Officers.

17. *Inspection of Supplementary Survey Office Work.*—The District Reports indicate that the importance of recess inspections is generally understood. But it is necessary to remind some of the Superintendents that a single inspection of each Revenue Surveyor's recess work is not sufficient. In Meiktila some Revenue Surveyors' offices apparently were not visited even once. In Upper Burma recess work in some cases has to be done at several seasons in the intervals of three or four annual assessments. But in some districts in Upper Burma (Mandalay and Magwe for instance) as well as in Lower Burma the recess work of every Revenue Surveyor has been inspected by Inspectors at intervals three or four times, and this standard ought to be observed by all districts. The work on which the Revenue Surveyors are employed is of a kind which in settlement or survey parties is done by the staff collected in one building under daily supervision. It is hoped that the serious under-assessments discovered in Yamèthin in 1908-09 will be prevented in other districts by systematic checking of the registers with the map. In Katha, where the Superintendent made thorough inspections and visited 34 out of 39 offices, he found that the errors pointed out in inspection notes were not always corrected in the maps. In Lower Burma there is a long recess, when field work is impossible, and it is important by frequent inspections to see that Surveyors do not postpone the preliminary work on their maps and registers until the field season. It is possible that procrastination in this work may have some connection with the unpunctuality in the submission of the assessment rolls, which in some districts occurs annually.

(*a*) Inspections by the Land Records staff.

The Superintendent who paid most attention to the duty of office inspection

was Mr. Beechey at Pegu; Mr. Baker at Magwe inspected only two offices; but much of Mr. Baker's time was occupied by important work connected with the survey of sites of oil-wells at Yenangyaung and every Revenue Surveyor's office in the Magwe District is reported to have been inspected three times by the Inspectors.

(*b*) Inspections by District Officers.

Excepting several inspections by the Deputy Commissioner of Myaungmya and a small number of inspections by the Deputy Commissioners of the Upper Chindwin District, Tavoy and Bassein and by the Township Officers in the Lower Chindwin District the inspections of Revenue Surveyors' offices appear to have been neglected by District Officers.

(*a*) Alienations in Upper Burma.

18. *Report of Alienations.*—No improvement has been observed in the efficiency of the system of reporting changes of ownership or possession in Upper Burma. The reports are said to be reluctantly made by cultivators. In the dry districts of Upper Burma cultivators whose land is barren and assessed at low rates have little to fear from fraudulent use of the records, and are content to accept a revenue receipt bearing another person's name. In Pakôkku it is said that the cultivators in the alluvial tract are reluctant to report transfers because their occupation in many cases contravenes the Land Revenue Directions regarding occupation of State lands. In Minbu it is said that collection of land revenue is delayed by the neglect of cultivators to report transfers. In Katha the cultivators ignore the register of reports of transfers, and the Village Headmen do not understand its use.

(*b*) Alienations in Lower Burma.

In Lower Burma also, although the obligation to report transfers to the Revenue Surveyor has not been removed by the legislation of recent years requiring certain transactions relating to land to be made by registered documents, two districts report a large decline in the number of these reports received by Revenue Surveyors. The Commissioner of Arakan in a note on the report of the Akyab District comments upon the inaccuracy of the record of possession in a large number of cases which have come to his notice in legal proceedings. He remarks that inspecting officers have failed to notice errors of this kind in their field inspections, or the returns of errors are inaccurate. In Myaungmya the decline in the number of reports by the public is attributed to increasing use of registered deeds. In Pegu, however, the Deputy Commissioner states the decline is due to diminution in the number of transfers and not to any neglect of cultivators to report. The question whether reports of transfers not made by registered documents, in cases where the law requires registered documents, should be accepted and recorded in the Land Records registers has recently been referred to the Financial Commissioner.

(*c*) Communication of Transfers by Registration Offices and Civil Courts.

The procedure for communicating transfers from Registration offices and Civil Courts to the Land Records staff seems to have worked well on the whole; but in Thatôn Sub-Registrars are said to be negligent in furnishing the prescribed memoranda, and in Pyapôn and Bassein the particulars are said to be inaccurately shown. There is a mention in the Pyapôn District Report of extortion being practised by means of the "new law" regarding reports of transfers, which is not sufficiently explained.

District Offices and Record Rooms.

19. *District Offices and Record Rooms.*—The District Offices and Record Rooms were inspected by one or other of the three administrative officers in 28 districts during 1909-10. There are still several districts in which the arrangement of maps and registers in the serial order of the numbers of the *kwins* (the method prescribed in Chapter VI of the Manual) has not yet been carried out. A beneficial reform in the District Offices was introduced during the year in transferring from the Superintendent to the District Bailiffs the work of disbursing the pay and allowances of the staff. The Superintendent remains responsible for obtaining the acquittances of the payees before drawing the next month's pay.

Checking of Assessment rates.

20. *Checking of Assessment Rates.*—Cases continue to occur in which the correct sanctioned rates of land revenue are not assessed on whole tracts or on classes of land. In a special enquiry regarding the assessments it was found that in several cases the Superintendent's check of the rates at the time of signing the assessment rolls had been perfunctory. But the most serious errors resulting in erroneous assessments continuing for several years occurred owing to the notifications of rates not having been properly filed in the District Office and being overlooked. It is hoped that the attention which has been drawn to the matter will diminish the first cause of wrong assessments. The second cause can be prevented by the vigilance of inspecting officers.

(*a*) Land Records Offices and Record Rooms.

21. *Buildings.*—The buildings used as District Land Records Offices and Record Rooms are still inadequate at Akyab (Record Room), Hanthawaddy (both Office and Record Room), Rangoon Town (Office), Bassein (Record Room and temporarily the Office), Amherst (fittings of Record Room), Pakôkku (both Office and Record Room), Magwe (Record Room).

(*b*) Revenue Surveyors' Offices.

Most of the reports repeat the long-standing complaints regarding the accommodation of the Revenue Surveyors' offices. In the Pegu Division generally surveyors, in villages as well as in towns, have to pay high rents and can hire usually only a part of a house. In other cases the chief complaint is the insecurity of the buildings used. The Surveyors have to accommodate the Government records in their private residences and no standard of accommodation can be prescribed or enforced. The Local Government has ordered that the rules relating to house-building advances shall be held not to apply to Revenue Surveyors. The advances granted before this order resulted in some good buildings being erected. A proposal to grant a house and office allowance of Rs. 5 (not in all cases as an addition to present rates of pay) subject to the condition of a specified standard of accommodation being provided has been submitted to the Financial Commissioner. The Deputy Commissioner, Upper Chindwin District, is in favour of locating Revenue Surveyors' offices in the District, Subdivisional or Township Offices wherever this is possible. But this measure even where some space can be found in these buildings cannot be a general solution of the problem. In many cases the necessity of living at headquarters towns would tend to increase the cost of living for the Revenue Surveyors. The Superintendent of Land Records, Pakôkku, is endeavouring to assist Revenue Surveyors to build suitable houses by obtaining licenses for the extraction of timber from the Forest Department.

Conduct of the staff.

22. *Conduct of the Subordinate Land Records Staff.*—In Shwebo serious under-assessments and falsification of registers during successive years were discovered and three Inspectors were reduced and five Revenue Surveyors were dismissed from Government service, and five others reduced. Eight other Surveyors were discharged in this district for bad work and incompetence. In Yamèthin irregularities in assessments have not entirely ceased, and three Surveyors were removed for this cause, and ten others reduced for bad work. With these two exceptions no flagrant cases of misconduct are commented upon in the District Reports. The total number of major punishments (33 removals and 13 dismissals) in the classes of Inspectors and Surveyors is not excessive. The work of the field staff, however, is reported as unsatisfactory in Prome, Ma-ubin, Meiktila and Katha. Several Deputy Commissioners mention the mental and physical deterioration of senior members of their field staff and the opinion is held that this deterioration is accelerated by the nature of the duties of the field staff.

Numerous Inspectors and some Surveyors are commended for meritorious work in the District Reports. The Department has lost the services of meritorious officers in Maung Po Kyin (Pyapôn) deceased and Maung Bo Kyè (Bassein) who retired after 30 years of efficient service without a single record of blame. Three experienced Inspectors are temporarily in charge of the duties of Superintendents, Maung Ba Aung in the Upper Chindwin, Maung Tha Hlaing in Kyaukpyu and Maung Po U in Mergui.

CHAPTER IV.

TRAINING OF OFFICERS.

23. *Survey Schools, Statement XI.*—There has been no change in the number of Government Survey Schools, which continues at 19. The Mergui School is to be now held alternately every three years at Tavoy and Mergui; it will under these orders be shifted to Tavoy next year. The question of moving the Sagaing School to Shwebo where the demands for surveyors are abnormally large is under consideration. The total number of pupils on the rolls of the schools on the 31st March 1910 was 377; of these 34 per cent. paid no fees. The daily average number of pupils on the rolls was 379. There was a marked diminution in the attendance at Katha, Mergui and Insein, and there were noticeable increases at Mandalay, Minbu, Mônywa and Pegu. The best attended schools are those of Minbu, Pakôkku, Sagaing, Meiktila, Pegu and Moulmein. The maximum number of pupils permissible in a school is 35, but an exception was made for Minbu and Pakôkku of which the numbers were temporarily raised to 40. The schools with the smallest attendance were Katha and Mergui. Of the pupils admitted into the schools 14 per cent. had passed the Seventh or Higher Standard, and 17 per cent. the Sixth Standard. The admission test for candidates not possessing educational certificates of the required degree should be stricter at most centres, and particularly in Toungoo and Moulmein which possess excellent educational institutions. The demand for qualified surveyors continues on the whole to be good. But the class of recruit which the schools attract is not always of the proper quality, *e.g.*, *Thugyis'* sons and near relatives. The proportion of sons of *Thugyis* and agriculturists, to those of traders and others, was as 3 : 2.

(*a*) Attendance of Pupils.

All the available scholarships were allotted, *viz.*, 68 of the 1st grade and 144 of the 2nd grade. These were given for the most part to deserving students. The total scholarship payments amounted to Rs. 14,388. Money prizes are not now granted by Government for the reason given last year. A valuable prize was offered for competition in the Insein School by the Deputy Commissioner of the District, and was much appreciated by the class.

(*b*) Scholarships and Prizes.

The total expenditure on schools was Rs. 40,171, against an income of Rs. 5,106; this gives the net cost at Rs. 35,065. The cost of educating each pupil thus works out to Rs. 93, which is a trifle more than that of last year.

(*c*) Cost of Survey Schools.

The number of candidates from Government Survey Schools who qualified at the Syndicate Examination of April last was 250 in Surveying, 143 in Arithmetic and 211 in Revenue law; this gives a percentage of passes on the number of pupils who sat for examination in each of the subjects at 71, 44 and 65, respectively. The results are satisfactory for Surveying, fair for Arithmetic and good for Revenue. There has been a considerable improvement in the first two subjects as compared with the results of the previous year. But Arithmetic yet demands more attention. The Schools of Minbu, Sagaing, Moulmein and Pakôkku did best in Surveying, while the least successful ones were those of Mônywa, Toungoo, Mergui and Katha. In Arithmetic the Minbu, Moulmein and Sagaing Schools did well, while Mônywa, Katha, Kyaukpyu, Yamèthin, Toungoo and Prome did badly. The passes in Revenue law were very good in Sagaing, Minbu and Yamèthin, but were poor for Mônywa, Kyaukpyu, Toungoo and Katha. The schools at Minbu and Sagaing were conspicuously successful taken all round, while those of Mônywa, Toungoo and Katha shone out least.

(*d*) Results obtained at Syndicate Examinations.

The 'Clancey' medal for proficiency in Surveying was won by a pupil of the Minbu School; this makes the fourth achievement of the kind for this centre.

The teachers as a class are competent and have, with few exceptions, worked well, more especially those of Minbu, Pakôkku and Sagaing; those whose work has been unsatisfactory belong to Mônywa and Toungoo; the former is to be removed from his appointment shortly owing to continuous bad work, while the latter would be

(*e*) Teaching Staff.

better for superannuation. The former teacher at Moulmein, who was rewarded by a Myoôkship for his excellent work in the Department, was reverted in the year to his permanent post.

(f) Inspection of Survey Schools.

All but six of the schools were inspected by one or other of the three Administrative Officers. The condition of the schools at Mônywa, Toungoo and Katha was unsatisfactory, but elsewhere they were found to be doing well. Generally speaking, field-work is well practised, and book-work also receives due attention. The mapping work at Minbu was particularly good, and it is also good at Moulmein, Bassein and Kyaukpyu, but at several centres drawing and printing require to be better taught. The schools were in most places frequently visited by the Local Superintendents of Land Records. Meiktila requires closer supervision, and the moral tone of the school needs improvement. The school at Yamèthin was inspected by the Deputy Commissioner.

24. *Training of Apprentice Surveyors.*—The Superintendents of Prome, Toungoo, Minbu, Magwe, Shwebo and Rangoon Town, for various reasons omitted to test the apprentices of their districts in the duties of Revenue Surveyors. In Thatôn and Amherst the Superintendents have specially exerted themselves by well-considered means to make the training effective. Shwebo, Katha and Tavoy are handicapped by the difficulty of obtaining qualified recruits. The Deputy Commissioner, Mandalay, remarks that the competition of the Irrigation Department where lighter work and better pay are offered deprives him of the best boys trained in the Survey schools.

Training of the Subordinate Staff.

25. *Training of the Paid Subordinate Staff.*—The Land Records Manual contains directions (paragraphs 99 and 100) for the yearly oral instruction of the field staff in regard to new orders or methods. The staff in most districts includes many men who have very slight literary education and there is no doubt of the superior efficacy of oral instructions to written instructions for such men. The Superintendent of Magwe (Mr. Baker) was not well advised to omit the prescribed demonstration on the ground that his staff were already pressed for time and would be delayed by this procedure. Mr. Beechey (Pegu), Mr. Carrapiet (Thatôn), Mr. Fforde (Minbu), Mr. Skinner (Katha), Mr. Connor (Lower Chindwin), and Maung On Pe (Meiktila) gave some of their subordinates instructions in the use of the theodolite. It is hoped that others of the senior Superintendents will devote some time to this duty next year. Some districts have among their staffs men who have been trained in the use of the theodolite either in parties of the Survey of India or in the provincial survey parties; but these men from time to time must be replaced, and there are some districts which are at a disadvantage owing to the want of men competent to make traverses or to replace lost survey marks.

26. *Training of Assistant Superintendents.*—Six Probationer Assistant Superintendents completed their year of study at the Survey of India Training School at Dehra Dun in October 1909, and joined the Topographical Party, No. 10, of the Survey of India for a year's training in practical survey work. The original intention was that the Probationers should work with the Survey Party so that they might see how survey operations were carried on under properly organized conditions. No. 10 Party is, however, working in hilly areas where ordinary survey work cannot be studied under favourable circumstances and it was therefore decided to place the Probationers in a separate training camp under the special supervision of an experienced Survey of India Officer. Bhamo was at first selected as a training ground but proved unsuitable, so the camp was moved to Yamèthin where there was 16-inch Rural work and 64-inch Urban work to be done. As mentioned earlier in this report the Probationers have done a considerable amount of rural revision survey and later they took up large scale work in Yamèthin Town. Under Mr. Smart and afterwards under Mr. Littlewood, the Probationers have been receiving an excellent training. For the last month or two they are to study recess work in the headquarters office of the Survey Party. The Commissioner of Settlements and Land Records visited the training camp twice, first at Bhamo and afterwards at Yamèthin. He found that the Probationers

were doing good work and that the Instructor spoke favourably of their abilities and progress. During the year of report three new probationers were appointed to fill vacancies and are now at Dehra Dun.

27. *Training of Junior Superintendents in Survey Work.*—After considerable discussion it has been decided that junior Superintendents are to receive the same practical training as the Probationers. A start will be made in November 1910 when three Superintendents of the 5th grade will be posted to the training camp. The course will probably last about nine months.

Training of Civil Officers in Survey.

28. *Training of Civil Officers in Survey and Land Records Work.*—The number of officers of the Commission and of the Provincial and Subordinate Civil Services trained in Land Records Work and Surveying was 55. Several Deputy Commissioners report that the time occupied in training officers has interfered with the regular duties of the Superintendents. In one or two cases the Superintendent had as many as four officers under training at the same time. Government has now agreed to a proposal that the posting of officers for training shall be as far as possible arranged so that not more than four officers shall be posted for this training at one station during a year, and not more than two at the same time.

CHAPTER V.

ADMINISTRATION AND GENERAL.

(a) Administrative Staff.

29. *Gazetted Staff.*—The appointment of Commissioner of Settlements and Land Records was held by Mr. H. M. S. Mathews throughout the year. Mr. W. E. Lowry, I.C.S., was Deputy Director until September 1909, when he was relieved by Mr. C. W. Dunn, I.C.S. Mr. J. C. Clancey, Assistant Director, was on duty throughout the year.

(b) Cadre of Superior Land Records Service.

The cadre of the superior Land Records Service provides 40 Superintendents and 6 Assistant Superintendents. When the year opened the Department was 4 officers below its full strength. Two Superintendents retired during the year making six vacancies in all. To fill these six vacancies 3 officers were appointed as Superintendents by transfer from the Survey of India Department and 3 Probationer Assistant Superintendents were entertained and sent to Dehra Dun for training. At the close of the year the Department was up to its full strength: but 9 of the officers were under training and the 3 Survey of India officers only completed their training just before the year came to an end.

(c) Leave and Deputation of Officers.

Long leave was granted to 4 officers during the year. One officer who was on deputation to the Provincial Civil Service returned to duty. At the close of the year 4 officers were absent on long leave. These vacancies were filled by 1 Myoôk with Land Records experience and 3 Land Records Inspectors temporarily appointed to the Subordinate Civil Service.

Taik-thugyis in Lower Burma.

30. *Replacement of Taik-thugyis by Revenue Surveyors.*—There have been 23 casualties among *taik-thugyis* in Lower Burma. Among the functions of this lessening class of officials are the assessment and collection of land revenue. In districts which have been cadastrally surveyed the *taik-thugyis* are required to maintain the supplementary survey and to assess the land revenue on the *data* supplied by the survey, in fact to carry on the work which is performed by Revenue Surveyors in localities where the office of *taik-thugyi* has been abolished. With very few exceptions the remaining *taik-thugyis* instead of performing this duty in person employ Surveyors (*taik-sayes*). The salaries of these Surveyors and of the necessary chainmen have in recent years been paid by the Superintendent, and an equivalent sum is

deducted from the commission on the revenue which is the remuneration of the *taik-thugyis*. The *taik-thugyis* remain nominally responsible for the supplementary survey. Whatever may be the administrative advantages of the old system in other respects, most officers are agreed that this nominal responsibility for supplementary survey is ineffectual, and that *taik-sayes* tend to be less efficient than Revenue Surveyors owing to the division of authority between the Superintendent and the *taik-thugyis*. A proposal has been under consideration to relieve the *taik-thugyis* finally of all responsibility for survey and assessment, and this measure has since the close of the year actually been adopted in the Pegu District (where there are six *taik-thugyis*) with the consent of the *taik-thugyis* and the sanction of Government. The Deputy Commissioner of Hanthawaddy reports that he has relieved the *taik-thugyis* of four Circles adjacent to Rangoon of all responsibility in regard to Land Records matters in order to make the Superintendent's control in these important areas more effective. The number of *taik-thugyis* still extant in the districts under supplementary survey is according to the reports 138, of whom 5 in the Amherst District and perhaps a few in other districts are in charge of remote or sparsely cultivated circles which are not under supplementary survey.

Famine.

31. *Famine Code.*—Section 10 of the Burma Famine Code prescribes the submission to the Financial Commissioner of an Annual statement giving the information which may have been collected by the Commissioner of Settlements and Land Records (*1*) as to the liability of each district to scarcity and famine and (*2*) as to the general character of the protective measures which appear to be needed. It has been decided to include the information which constitutes this annual statement in a paragraph of the Annual Administration Report of this Department instead of submitting the statement separately. There is very little to report on the subject in this Province from year to year. The Upper Chindwin District, where the rainfall is abundant and constant and scarcity is unknown, has been excluded from the list of districts declared liable to famine, which now number 19. Revised analyses of districts intended to show the resources of the people to support a famine were prepared, the period of five years having elapsed since the preparation of the original analyses. Similar analyses were prepared for the districts of Toungoo, Magwe and Northern Arakan, which have been added to the list since the beginning of the *quinquennium*. The general tendency of the alterations made on revision of the analyses was, in the classification of tracts, to raise them from the classes of less security to the classes of greater security. The only important exception was a tract in the Lower Chindwin District which in the light of information obtained in the course of Settlement operations was reduced from the middle to the lowest class with reference to security from famine. The extension of the Government Irrigation canals in Shwebo and Mandalay forms an important insurance against scarcity in those districts and supplies resources near at hand for relieving the districts where the crops are most precarious. The programme of sanctioned relief works has been considerably enlarged in several districts but the suggestion made in this place last year that a larger provision should be made in Myingyan has not yet been carried out.

Manuals.

32. *Manuals.*—The Land Records Manual was issued in December 1909 An abridged edition in Burmese has been prepared with great expedition by the Translation Department, and is now being issued from the Press for the use of the Inspectors and Revenue Surveyors and other officers unacquainted with English. A limited number of copies of the Manual was printed. The rules and orders of the Department having now been codified are being subjected to more constant scrutiny and criticism, which will make a new edition necessary by the time that the small reserve of copies of the first edition is exhausted.

H. M. S. MATHEWS,
Commissioner of Settlements and Land Records, Burma.

NYAUNGU, *7th September* 1910.

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STATEMENT No. I.—*Area under, and Cost of, Demarcation preliminary to*

Nil.

STATEMENT No. II.—*Area under, and Cost of, Revision Surveys*

TRACT.		TRAVERSE (FIELD).						CADASTRAL				
						Mathematical results.		*Staff.*				*Kw*
District.	Township.	Sub-Surveyors.	Period.	*Kwins.*	Area.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Whole.
1	2	3	4	5	6	7	8	9	10	11	12	13
		No.	Months.	No.	Sq. mls.	Seconds.	Links.	No.	No.	No.	Months.	No.
Hanthawaddy ...	3	2	6	26	59·00	11	0·10	2	14	4	6	73
Amherst ...	1	...	...	...	...	...	...	...	2	...	3	10
Mandalay ...	...	...	...	...	...	...	...	...	...	...	...	...
Yamèthin ...	2	1	7	93	76·00	6	0·52	1	6	3	6	92
TOTAL FOR 1909-10.	6	3	6—7	119	135·00	6—11	0·10—0·52	3	22	7	3—6	175
TOTAL FOR 1908-09.	13	15	6—9	430	766·25	2·00—7·79	0·19—0·62	16	103	44	4—7	630

STATEMENT No. III.—*Area under, and Cost of, Extension Surveys*

TRACT.		TRAVERSE (FIELD).							CADASTRAL			
							Mathematical results.		*Staff.*			
District.	Township.	Sub-Surveyors.	Period.	*Kwins.*	Area.	Azimuths observed.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.
1	2	3	4	5	6	7	8	9	10	11	12	13
		No.	Months.	No.	Sq. mls.	No.	Inches.	Links.	No.	No	No.	Months.
Tharrawaddy ...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL FOR 1909-10.	...	...	...	...	...	..	...	...	...	...	...	...
TOTAL FOR 1908-09.	14	13	3—6	196	301·48	75	0·08—2·33	0·02—0·9	8	50	17	6

Original Cadastral Survey outside Towns in 1909-10 (Paragraph 2).

(*by Special Staff only*) *in* 1909-10 (Paragraph 3).

(Field).								Cadastral (Recess).		Cost (Field and Recess).			
Kwins.	Area.		Fields.		Kwins partalled.								
Part.	Gross.	Occupied.	No.	Average size.	Kwins holding-marked.	By Superintendent.	By Inspectors.	Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	Remarks.
14	15	16	17	18	19	20	21	22	23	24	25	26	27
No.	Sq. mls.	Acres.		Acres.	No.	No.	No.	No.	Mths.	Rs.	Rs. A.	As. P	
3	106·78	51,030	90,158	0·56	76	24	76	15	6	16,127	151 0	5 0	
...	16·33	4,604	11,552	0·90	10	...	10	2	3	780	47 12	2 9	
...	...	...	...	...	...	...	...	11	8½	4,306	48 4	1 2	Relates to the recess work only of the previous season's surveys.
1	76·00	35,972	72,704	0·49	93	40	93	9	6	6,266	82 7	2 9	
4	199·11	91,606	174,414	0·65	179	64	179	26	3—6	23,173	116 6	4 1	
63	932·55	350,418	649,439	0·54	473	233	654	104	4—6	96,381	103 6	4 5	

(*by Special Staff only*) *in* 1909-10 (Paragraph 4).

(Field).								Cadastral (Recess).		Cost (Field and Recess).			
Kwins.	Area.		Fields.		Kwins holding-marked.	Kwins partalled.							
	Gross.	Occupied.	No.	Average size.		By Superintendent.	By Inspectors.	Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile, gross.	Per occupied acre.	Remarks.
14	15	16	17	18	19	20	21	22	23	24	25	26	27
No.	Sq. mls.	Acres.		Acres.	No.	No.	No.	No.	Months.	Rs.	Rs. A.	As. P.	
...	...	...	...	...	...	...	...	6	3	717	28 8	2 0	Refers to the recess work of surveys of the previous year.
...	...	...	...	...	...	...	...	...	...	...	...	...	
233	347·71	74,134	137,396	0·54	229	31	217	72	3—6	36,944	106 4	8 0	

STATEMENT No. IV.—*Area under, and Cost of, Demarcation and*

District.	Demarcation.					Traverse (field).				Cadastral			
	Demarcation Officers.	Period.	Towns.	Area.	Cost.	Sub-Surveyors.	Period.	Towns.	Area.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	No.	Months.	No.	Sq. mls.	Rs.	No.	Months.	No.	Sq. mls.	No.	No.	No.	Mns.
Thatôn ...	1	2	3	2·85	402	2	2	3	2·85	1	6	2	3
Amherst	4*	7	1	2·28	8,965	1	1	1	0·39	1	5	2	5
Magwe	1	12	2	2·82	330	...	...	...	...	...	...	...	...
Yamèthin	1	3	1	1·87	384	...	...	..	...	...	...	...	..
TOTAL FOR 1909-10 ...	7	2–12	7	9·82	10,081	3	1—2	4	5·24	2	11	4	3–5
TOTAL FOR 1908-09 ...	7	2–12	5	6·01	7,821	3	1—6	2	9·72	2	11	11	3—6

STATEMENT No. V.—*Area under, and Cost of, Demarcation and*

District.	Tract.	Demarcation.								
	Township.	Demarcation Officers.	Period.	Fisheries.	Area.	Cost.	Staff.		
							Inspectors.	Surveyors.	Draughtsmen and Clerks.
1	2	3	4	5	6	7	8	9	10
		No.	Months.	No.	Acres.	Rs.	No.	No.	No.
Hanthawaddy ...	...	...	...	...	...	...	...	...	...
Tharrawaddy ...	6	1	3	242	37,760	662	...	...	...
Mandalay ...	4	...	...	...	...	...	...	4	...
TOTAL FOR 1909-10	10	1	3	242	37,760	662	...	4	...
TOTAL FOR 1908-09	9	2	2—5	411	10,200	2,181	1	10	1

Survey of Town Lands in 1909-10 (Paragraph 5).

VEY.					
(FIELD).		RECESS.		Cost (Field and Recess).	Remarks.
Towns.	Area.	Inspectors, Draughtsmen, and Computors.	Period.		
15	16	17	18	19	20
No.	Sq. mls.	No.	Months.	Rs.	
3	2·85	5	4	3,128	
1	2·14	9	3	5,424	* Including one Boundary Officer.
...	...	...	...	...	
...	...	...	...	...	
4	5·29	14	3—4	8,552	–
4	10 84	22	3—6	16,685.	

Survey of Fisheries (by Special Staff only) in 1909-10 (Paragraph 6).

SURVEY (FIELD).							SURVEY (RECESS).		Cost (Field and Recess).	Remarks.
Period.	FISHERIES SURVEYED.				FISHERIES INSPECTED.		Inspectors, Draughtsmen and Clerks.	Period.		
	Whole.	Subdivisions.	Area.	Anuual Rentals.	By Superintendent.	By Inspectors.				
11	12	13	14	15	16	17	18	19	20	21
Months.	No.	No.	Acres.	Rs.	No.	No.	No.	Months.	Rs.	
...	...	...	...	...	...	..	3	6	792	Relates to the previous years' surveys.
...	...	..	...	...	..	...	...	...	...	
4	180	3	144,000	49,100	...	...	2	4	1,038	
4	180	3	144,000	49,100	...	...	2	4	1,038	
6	150	507	16,982	2,49,910	367	108	4	2—6	11,691	

STATEMENT NO. VI.—*Area under, and Cost of, Patta*

TRACT.		SPECIAL PATTA MYOÔKS.									
				GRANT CASES.					STAFF.		
District.	Township.	No.	Period.	For disposal.		Disposed of.		Cost.	Inspectors.	Surveyors.	Period.
				No.	Area.	No.	Area.				
1	2	3	4	5	6	7	8	9	10	11	12
			Months.		Acres.		Acres.	Rs.	No.	No.	Months.
Akyab	9	...	...	...	...	...	...	...	...	9	6
Kyaukpyu ...	4	...	...	...	...	...	...	...	4	6	12
Sandoway ...	2	...	...	...	...	...	...	...	...	3	11
Hanthawaddy ...	3	...	...	...	...	...	...	...	...	2	6
Thatôn	6	...	...	...	...	...	...	...	...	3	6
Tavoy	2	...	...	...	...	...	...	...	...	3	6
Mergui	2	...	...	...	...	..	...	...	...	6	6
Thayetmyo	2	..	...	...	...	...	...	...	...	... *	... *
Pakôkku	2	...	...	...	...	...	...	...	...	... ‡	‡
Mandalay ...	2	...	...	...	...	...	...	...	...	1	‡
TOTAL FOR 1909-10 ...	34	...	...	...	...	...	...	...	4	33	6—12
TOTAL FOR 1908-09 ...	40	5	4—6	4,089	39,746	2,397	13,356	6,056	9	75	3—12

Surveys by Special Staff only in 1909-10 (Paragraph 7).

SURVEY.								PLOTS CHECKED.				
PATTAS.				FEES.		COST.		BY SUPERINTENDENT.		BY INSPECTORS.		Remarks.
For Survey.		Surveyed.		Rate per acre	Amount realized.	Contract system.	Regular pay.					
No.	Area.	No.	Area.					No.	Area.	No.	Area.	
13	14	15	16	17	18	19	20	21	22	23	24	25
	Acres.		Acres.	As. P.	Rs.	Rs.	Rs.		Acres.		Acres.	
407	2,642	407	3,569	8 0	1,329	1,749†	...	...	...	59	573	† Includes Rs. 1,493 not yet paid out.
652‡	7,500	569	7,150	8 0	3,122	6,778*	...	..	...	295	5,676	‡ Pending for survey 83 cases.
119†	1,107	114	916	8 0	644	236*	...	...	...	41	568	* Includes large payment for the previous years' surveys. † Pending for survey 5 cases.
13*	4,830	13	4,476	8 0	2,415	42	1,056	4	1,816	13	4,476	* Further payments yet due. * For the cultivation of Rubber and castor oil plant.
97†	5,980	97	5,980	8 0	1,910	592	...	1	3,000	65	1,207	† Includes for Rubber cultivation.
... *	... *	309	4,181	8 0	2,194	... *	... *	... *	... *	... *	... *	* Figures not furnished.
680†	23,301	338	20,265	12 0	28,060	1,200	...	2	265	23	191	† Pending for survey 342 cases. Applications include for rubber cultivation 26 cases with an area of 20·440 acres.
35	173	35	173	6 0	66	... *	...	...	...	...	...	* Figures not given.
3†	80,000	3	80,000	... ‡	... ‡	... ‡	...	...	...	...	...	‡ Figures not given. † For leases for mineral oil
62†	565	62	565	... ‡	18	105†	...	...	...	...	...	‡ Figures not given. † For leases for rice cultivation.
2,068	126,098	1,947	127,315	6—12	39,758	10,702	1,056	7	5,081	496	12,691	
7,321	99,729	5,871	63,244	8-0	32,516	15,946	16,908	139	1,263	3,869	42,812	

STATEMENT NO. VII.—*Area under Supplementary*

District.	Supplementary Survey in Rural Areas.					
	No. of *kwins*.	*Total area.* Total area under Supplementary Survey.	*Total area.* Under occupation.	*Total area.* Under cultivation.	*Total area.* Under assessment.	Total assessment (including cess in Lower Burma) on the area in column 6.
1	2	3	4	5	6	7
	No.	Sq. miles.	Acres.	Acres.	Acres.	Rs.
Akyab	1,241	2,078	686,744	597,721	680,948	18,98,015
Kyaukpyu	792	814	173,645	165,703	167,610	2,93,682
Sandoway	291	268	56,461	53,757	55,569	1,06,876
Rangoon Town	...	...	...	...	...	...
Hanthawaddy	1,736	2,663	1,228,709	1,183,611	1,199,183	40,61,843
Tharrawaddy	605	1,257	493,481	463,627	493,389	12,54,778
Pegu	1,380	2,382	902,092	833,394	899,650	20,25,717
Prome	1,026	1,714	358,242	333,511	358,117	5,93,884
Bassein	1,290	2,222	690,972	624,364	689,331	16,73,264
Henzada	849	1,793	565,053	535,975	559,546	14,69,519
Myaungmya	1,064	1,816	640,878	583,762	637,432	20,92,185
Ma-ubin	591	1,641	442,126	418,227	441,847	13,20,021
Pyapôn	839	1,284	621,250	595,580	617,885	20,23,725
Toungoo	768	1,496	414,827	385,464	391,862	8,38,307
Thatôn	1,695	2,393	706,527	665,107	704,937	12,91,804
Amherst	1,224	1,748	498,928	463,995	494,804	9,90,445
Tavoy	517	465	121,313	114,025	119,393	3,13,466
Mergui	642	588	90,447	83,011	89,587	2,63,864
Thayetmyo	377	575	101,286	79,626	101,187	1,36,653
Pakôkku	*302*	77	*49,365*	*46,955*	*46,955*	*1,29,051*
Minbu	846	1,418	441,604	240,005	225,326	4,18,143
Magwe	2,204	2,813	942,124	452,084	428,607	4,91,084
Mandalay	744	700	250,945	187,176	175,494	8,43,353
Katha	1,953	1,079	199,079	156,026	152,108	1,98,875
Shwebo	3,639	3,680	997,557	583,277	456,487	9,96,394
Sagaing	1,171	1,823	736,930	483,751	444,468	4,91,193
Lower Chindwin	1,606	2,604	763,730	506,505	457,746	3,44,909
Upper Chindwin	188	105	39,566	31,749	31,494	37,903
Kyauksè	642	567	254,429	173,310	145,531	6,99,842
Meiktila	1,988	1,616	643,183	398,840	321,930	4,93,948
Yamèthin	1,886	1,651	492,496	362,168	346,486	6,28,798
Myingyan	2,832	3,023	1,181,194	626,072	572,066	4,56,943
TOTAL FOR 1909-10 ...	36,626	48,276	15,736,318	12,381,423	12,459,930	2,87,49,367
TOTAL FOR 1908-09 ...	36,156	47,909*	15,517,780*	12,269,909	12,078,825*	2,84,64,418*

* Revised figures.

NOTE.—Figures against Pakôkku

Survey for the year 1909-10 (Paragraphs 8 and 12).

Supplementary Survey in Towns.						Total area under Supplementary Survey.	Total area occupied.	Total assessment.	Remarks.
No. of Towns.	No. of Blocks.	*Total area.* Gross area.	Occupied area in Town Register 1.	Area under assessment.	Total Land Revenue and Rent.				
8	9	10	11	12	13	14	15	16	17
No.	No.	Sq. mls.	Acres.	Acres.	Rs.	Sq. mls.	Acres.	Rs.	
1	9	5	1,828	1,635	5,343	2,083	688,572	19,03,358	
1	6	1	445	346	2,100	815	174,090	2,95,782	
...	...	...	...	...	...	268	56,461	1,06,876	
1	43	29	12,934	8,523	4,35,665	29	12,934	4,35,665	
9	55	10	4,151	4,151	28,890	2,673	1,232,860	40,90,733	
12	62	16	9,603	...	...	1,273	503,084	12,54,778	
18	112	13	6,519	4,367	17,841	2,395	908,611	20,73,558	
7	36	9	4,572	3,549	30,346	1,723	362,814	6,24,230	
1	40	13	4,437	4,437	19,030	2,235	695,409	16,92,294	
10	98	16	7,398	5,874	16,644	1,809	572,451	14,86,163	
6	62	4	1,961	1,350	7,929	1,820	642,839	21,00,114	
5	6	7	2,925	2,750	13,320	1,648	445,051	13,33,341	
5	234	6	2,747	2,133	14,017	1,290	623,997	20,37,742	
10	413	13	3,185	2,694	10,763	1,509	418,013	8,49,070	
7	202	11	4,023	3,014	6,973	2,404	710,550	12,98,777	
2	18	4	1,727	1,444	2,441	1,752	500,655	9,92,886	
1	30	4	1,524	1,280	4,032	469	122,837	3,17,432	
2	143	2	979	846	3,881	590	91,426	2,67,745	
2	14	2	711	711	...†	577	102,497	1,36,653	† Rolls not completed.
...	...	...	...	...	...	77	*49,365*	*1,29,051*	
4	35	3	801	1,017	2,680	1,421	442,405	4,20,823	
3	23	4	1,177	...	...	2,817	943,301	4,91,084	
2	911	16	7,957	6,740	15,458	716	258,902	8,58,811	
3	42	1	574	219	5,009	1,080	199,653	2,03,884	
16	44	4	997	245	3,405	3,684	998,554	9,99,799	
3	13	3	1,266	737	4,701	1,826	738,196	4,95,894	
2	23	2	846	217	640	2,606	764,576	3,45,549	
...	...	...	...	...	...	105	39,566	37,963	
...	...	...	...	...	...	567	254,429	6,99,842	
4	...	5	1,044	1,044	4,753	1,621	644,227	4,98,701	
...	...	...	...	...	...	1,651	492,496	6,28,798	
2	57	5	407	...	...	3,028	1,181,601	4,56,943	
139	2,731	208	86,739	59,323	6,85,861	48,484	15,823,057	2,94,35,228	
80	2,222(*a*)	170*	60,023(*a*)	35,289(*a*)	5,63,402(*a*)	48,079*	15,577,803(*a*)	2,90,27,820(*a*)	

(*a*) These figures are incomplete for want of full details by districts.

are not included in the totals.

STATEMENT No. VIII.—*Cost of Supplementary*

District.	Superintendence and Inspection.				Supplementary Survey				
					Number of Survey Charges.				
	Pay and Travelling Allowance of Superintendent of Land Records and Assistant Superintendent of Land Records, if any.	Number of Inspectors and District Surveyors.	Pay and Travelling Allowance of Subordinate Inspecting and Clerical establishment.	Total cost (column 2 and column 4).	Revenue Surveyor's charges, Rural	Revenue Surveyor's charges, Urban.	Revenue Surveyor's charges partly Rural and partly Urban.	Surveyors' charges in *taiks*.	Surveyors' charges partly in *taiks* and partly in Revenue Surveyor's charges.
1	2	3	4	5	6	7	8	9	10
	Rs.		Rs.	Rs.					
Akyab ...	5,844	7	12,083	17,927	81	2	...	6	...
Kyaukpyu ...	7,002	4	6,831	13,833	9	1	...	10	8
Sandoway ..	3,446	3	5,037	8,483	11	1	1	...	2
Rangoon Town ...	7,200	1	5,927	13,127	...	7	...	...	...
Hanthawaddy ...	13,220	10	20,038	33,258	81	2	8	25	...
Tharrawaddy ...	6,657	5	8,197	14,854	41	3	...	9	...
Pegu ...	9,996	10	17,189	27,185	58	5	...	16	...
Prome ...	7,950	5	8,137	16,087	42	4	...	8	4
Bassein ...	5,270	9	14,786	20,056	55	2	...	22	...
Henzada ...	4,366	6	9,079	13,445	38	2	5	31	...
Myaungmya ...	8,155	6	11,077	19,232	46	...	6	10	3
Ma-ubin ...	4,108	5	9,011	13,119	43	...	5	5	...
Pyapôn ...	5,501	6	10,542	16,043	62	...	4	5	...
Toungoo ...	6,669	6*	8,575	15,244	27†	2	11	5	...
Thatôn ...	7,248	7	11,521	18,769	67	3	4	7	...
Amherst ...	5,397	5	8,599	13,996	42	...	2	4	2
Tavoy ..	2,751	3	5,388	8,139	14	2	1	4‡	3
Mergui ...	4,284	3	5,802	10,086	20	...	2	...	...
Thayetmyo ...	5,270	2	4,310	9,580	20§	1	...	4	...
Pakôkku ...	*7,274*	6*	*6,136*	*13,410*	...	1	...	...	...
Minbu ...	3,622	5	7,847	11,469	46	...	2	...	...
Magwe ...	7,245	8	11,066	18,311	75	1	...	...	...
Mandalay ..	14,935	7	14,245	29,180	47	14	...	...	...
Katha ...	4,354	5	8,858	13,212	38	1	...	...	...
Shwebo ...	9,726	13*	18,037	27,763	102	...	16	...	...
Sagaing ...	5,282	8	13,061	18,343	66	1	3	...	...
Lower Chindwin ...	6,150	6	8,394	14,544	55	...	2	...	...
Upper Chindwin ...	3,038	2*	5,096	8,134	8	...	...	...	...
Kyaukse ...	5,873	6	9,197	15,070	45	...	...	...	...
Meiktila ...	7,821	5	7,279	15,100	54	1	...	...	...
Yamèthin ...	5,395	6	8,340	13,735	60	1	...	...	...
Myingyan ...	5,354	9*	10,370	15,724	74	...	1	...	...
TOTAL FOR 1909-10....	1,99,129	183	3,03,919	5,03,048	1,427	56	73	179	22
TOTAL FOR 1908-09...	...	171	...	5,06,612				1,650	

* Includes one District Surveyor.
† Excludes one Surveyor employed wholly in unsurveyed tracts.
‡ Includes one *Thugyi* who does his own Supplementary Survey work.

Survey in 1909-10 (Paragraph 9).

FIELD STAFF.					AVERAGE COST					
							Of Supplementary Survey.			
Surveyors without local charges.	Number of periodical Surveyors.	Total cost of field supplementary survey staff.	Contingencies and supplies and services.	Total cost of supplementary survey.	Of supervision and inspection per square mile.	Of supplementary survey field staff per square mile.	Per square mile.	Per occupied acre.	Per cent. of total assessment.	Remarks.
11	12	13	14	15	16	17	18	19	20	21
No.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ans.	Rs.	
...	..	46,091	3,328	67,346	8·61	22·13	32·33	1·565	3·54	
...	1	11,425	1,418	26,676	16·97	14·02	32·73	2·452	9·02	
...	...	5,435	958	14,876	31·65	20·28	55·51	4·215	13·92	
...	...	8,283	744	22,154	451·66	285·62	763·93	27·406	5·09	
...	...	64,891	3,828	1,01,977	12·44	24·28	38·15	1·323	2·49	
...	...	28,134	1,613	44,601	11·67	22·10	35·04	1·418	3·55	
...	...	45,988	1,995	75,168	11·35	19·20	31·39	1·324	3·63	
...	...	31,779	1,397	49,263	9·34	18·44	28·59	2·172	7·89	
...	...	41,576	1,562	63,194	8·97	18·60	28·27	1·454	3·73	
...	...	41,826	1,457	56,728	7·43	23·12	31·36	1·586	3·82	
...	...	35,688	1,717	56,637	10·57	19·61	31·12	1·410	2·70	
...	...	28,568	2,130	43,817	7·96	17·33	26·59	1·575	3·29	
...	...	36,519	2,271	54,833	12·44	28·31	42·51	1·406	2·69	
...	...	23,173	949	39,366	10·10	15·36	26·09	1·507	4·64	
...	2	43,336	2,528	64,633	7·81	18·03	26·88	1·455	4·98	
...	...	23,647	1,920	39,563	7·99	13·50	22·58	1·264	3·98	
...	...	11,045	792	19,976	17·35	23·55	42·59	2·602	6·29	
...	...	11,384	934	22,404	17·10	19·30	37·97	3·920	8·37	
...	2	9,621	1,085	20,257	16·60	16·67	35·16	3·167	14·85	
...	30	*4,200*	*1,457*	*19,077*	*174·16*	*154·55*	*247·75*	*6·183*	*14·78*	§Excludes 12 Surveyors employed in unsettled tracts where Supplementary Survey has not yet begun.
...	4	20,589	1,646	33,704	8·07	14·49	23·72	1·219	8·01	
...	5	28,552	1,885	48,748	6·50	10·13	17·30	0·827	9·93	
3	17	33,826	1,630	64,636	40·75	47·24	90·27	3·994	7·53	
...	2	19,575	2,084	34,871	12·23	18·12	32·29	2·795	17·10	
...	16	51,460	4,118	83,341	7·54	13·97	22·62	1·335	8·34	
...	8	30,446*	1,468	50,257	10·05	16·67	27·52	1·089	10·13	
...	2	23,836	1,385	39,765	5·58	9·15	15·26	0·832	11·51	
...	...	4,604	543	13,281	77·47	43·85	126·49	5·371	35·04	
3	...	19,337	1,112	35,519	26·58	34·10	62·64	2·234	5·08	
...	...	22,770	1,823	39,693	9·32	14·05	24·49	0·986	7·96	
...	...	21,414	1,693	36,842	8·32	12·97	22·31	1·197	5·86	
...	10	30,864	2,516	49,104	5·19	10·19	16·22	·665	10·75	
6	69	8,55,682	54,530	14,13,260	10·38	17·65	29·15	1·429	4·80	
		7,85,766	45,869(a)	13,38,247(a)	10·54	16·34	27·83	1·375	4·61	

(a) Figures are incomplete for want of full details by District.

NOTE.—Figures against Pakôkku are not included in the totals.

STATEMENT NO. IX.—*Supplementary Survey*

District.	Number of *kwins* in the District under Supplementary Survey.	NUMBER OF *KWINS* UNDER SUPPLEMENTARY SURVEY IN WHICH THE FIELD WORK WAS TESTED.											Total number of *kwins* inspected by all inspecting officers.
		By District Officers.							By the Land Records Staff.				
			Subdivisional Officers.			*Township Officers.*				*Inspectors.*			
		Deputy Commissioner.	Number of Officers.	Number of *kwins* checked.	Average.	Number of Officers.	Number of *kwins* checked.	Average.	Superintendent.	Number of Inspectors.	Number of *kwins* checked.	Average.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Akyab	1,241	8	4	45	11	9	79	9	76	7	562	80	606
Kyaukpyu	792	3	1	8	8	5	36	7	76	4	320	80	391
Sandoway	291	4	...	...	...	3	26	9	52	3	202	67	284
Rangoon Town ...	...	...	...	...	...	...	...	...	3	1	3	3	3
Hanthawaddy ...	1,736	3	3	21	7	8	44	6	103	10	921	92	990
Tharrawaddy ...	605	18	2	60	30	6	76	13	102	5	551	110	560
Pegu	1,380	...	3	38	13	6	57	10	64	9	837	100	930
Prome	1,026	...	3	35	12	7	37	5	116	5	702	140	745
Bassein	1,290	15	2	13	7	6	6	1	71	8	629	79	682
Henzada	849	8	2	6	3	6	65	11	104	6	603	101	774
Myaungmya ...	1,064	17	...	...	...	...	...	...	80	6	640	107	733
Ma-ubin	591	39	2	21	11	4	14	4	47	5	366	73	487
Pyapôn	839	7	2	3	2	4	8	2	96	6	474	79	501
Toungoo	768	...	3	16	5	7	44	6	93	5	464	93	543
Thatôn	1,695	...	3	11	4	6	24	4	91	7	613	88	668
Amherst	1,224	...	3	2	1	7	52	7	61	5	398	80	436
Tavoy	517	...	...	...	...	4	14	4	87	3	314	105	389
Mergui	642	1	2	14	7	4	36	9	39	3	262	87	352
Thayetmyo	377	3	2	23	11	4	51	13	85	2	244	122	406
Pakôkku	302	...	2	1	1	4	1	...	112	4	200	50	314
Minbu	846	19	2	22	11	5	52	10	102	5	1,035	207	1,244
Magwe	2,204	1	2	10	5	6	16	3	63	8	1,071	134	922
Mandalay	744	4	2	23	12	4	26	7	99	5	666	133	687
Katha	1,953	5	3	31	10	7	48	7	111	5	699	140	783
Shwebo	3,639	2	3	61	20	9	242	27	184	12	1,156	96	1,485
Sagaing	1,171	4	2	70	35	6	92	15	120	8	993	124	750
Lower Chindwin ...	1,606	2	2	7	3	5	80	16	101	6	609	102	743
Upper Chindwin ...	188	1	1	3	3	1	15	15	92	1	106	106	134
Kyauksè	642	6	2	19	10	3	14	5	154	6	890	148	805
Meiktila	1,988	...	2	59	29	4	104	26	92	5	819	164	689
Yamèthin	1,886	...	2	12	6	5	90	18	133	6	819	137	1,054
Myingyan	2,832	12	2	115	58	6	222	37	132	8	1,022	128	1,503
TOTAL FOR 1909-10 ...	36,626	182	64	749	12	161	1,671	10	2,941	179	19,250	108	21,594
TOTAL FOR 1908-09 ...	36,156	193	64	844	13	158	1,763	11	2,874	171	17,719	104	21,867

(*a*) Figures

Inspections, for the year 1909-10 (Paragraph 16).

ABSTRACT OF ERRORS DISCOVERED BY THE LAND RECORDS STAFF.

Errors affecting assessments.							Statistical errors.					Number of holdings.			Remarks.
Total number of errors in			*Results of correction of errors.*				*Total number of errors in*								
			Increase.		Decrease.										
Area of extensions.	Crop marking.	Assessment.	Area.	Revenue.	Area.	Revenue.	Holding marking.	Crop marking.	Survey of interior details.	Record.	Total number of Statistical errors.	In the *twins* inspected.	Inspected in these *twins*.	Found correct.	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			Acres.	Rs.	Acres.	Rs.									
437	87	18	118	329	31	52	776	87	8,118	1,738	10,719	77,734	46,782	14,413	
178	939	6	66	98	17	20	301	...	401	732	1,434	53,535	13,236	11,649	
244	...	...	20	35	4	6	145	...	1,098	925	2,168	26,511	5,865	3,810	
2	...	...	...	...	...	...	..	...	30	...	30	350	50	40	
570	1,772	600	267	1,892	140	486	769	1,772	6,677	831	10,049	43,612	19,347	14,902	
178	...	...	36	79	8	17	141	1,053	2,581	367	4,142	97,124	21,889	18,619	
304	...	...	237	495	46	106	310	16	4,382	718	5,426	33,826	12,435	8,152	
482	1,591	25	459	643	331	453	606	..	4,597	537	5,740	252,199	33,033	17,793	
1,126	...	50	721	1,606	39	67	181	1,899	2,245	1,000	5,325	40,810	13,913	9,489	
559	...	151	169	391	67	165	1,398	1,937	5,927	752	10,014	103,976	21,631	16,803	
558	355	53	558	1,651	189	622	912	4,020	23,824	755	29,511	32,505	13,925	6,532	
193	1,337	84	193	495	31	78	380	1,100	4,110	609	6,199	33,262	9,303	5,647	
464	1,294	31	367	959	63	141	972	...	3,338	821	5,131	17,413	6,713	4,225	
212	924	6	106	212	78	134	375	...	2,157	1,330	3,862	34,279	12,561	8,693	
198	71	112	140	259	215	790	675	71	7,475	2,031	10,252	33,112	11,165	7,741	
184	2,467	3	195	294	35	19	381	911	4,137	424	5,853	27,251	12,074	8,037	
144	...	216	144	216	3	13	246	...	1,894	875	3,015	34,789	9,764	8,063	
166	969	66	166	346	9	23	260	...	1,429	838	2,527	12,758	5,355	3,595	
77	11	9	76	139	47	182	456	322	558	...	1,336	41,905	11,843	10,568	
47	240	43	61	175	15	50	40	277	155	136	608	31,887	12,603	11,864	
244	339	...	576	483	338	314	173	...	739	637	1,549	132,613	40,324	37,081	
1,120	668	1,788	292	301	972	257	370	311	395	627	1,703	130,646	57,244	56,126	
27	518	...	113	388	81	270	81	181	369	824	1,455	58,842	17,172	15,707	
266	2,347	7	90	148	248	260	286	407	2,105	114	2,912	19,399	8,752	6,489	
494	4,052	35	3,806	13,926	808	1,838	798	4,052	541	1,039	6,430	150,397	38,878	31,927	
69	518	138	441	428	205	185	259	243	276	924	1,702	167,684	38,235	34,453	
169	1,306	...	329	425	343	357	455	...	193	943	1,591	91,934	35,136	32,281	
330	92	919	63	55	81	86	13	234	348	77	672	20,541	7,380	6,057	
274	1,432	8	12,113	1,238	23	342	204	539	1,137	562	2,442	69,795	26,494	23,558	
86	3,324	57	1,932	3,987	216	514	74	578	204	690	1,546	89,449	25,358	20,911	
570	1,659	1,085	502	773	180	313	570	1,659	1,268	605	4,102	57,043	19,226	14,519	
1,001	1,765	1,910	953	795	582	499	1,612	832	1,257	2,039	5,740	170,273	60,419	50,973	
10,973	30,077	7,421	25,309	33,261	4,645	8,659	14,519	22,501	93,965	24,500	155,185	2,186,364	668,105	520,717	
(a)	(a)	(a)	(a)	21,382	(a)	8,090	(a)	(a)	(a)	(a)	126,973	(a)	588,264	485,479	

(a) not available.

STATEMENT No X.—*Supplementary Survey by the*

District.	Survey of Grants and Leases.					
	Number			*Area*		
	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed.	Checked by Inspector.	Checked by Superintendent.
1	2	3	4	5	6	7
				Acres.		
Akyab	...	...	...	...	...	...
Kyaukpyu	...	...	...	...	...	...
Sandoway	...	...	...	...	...	...
Rangoon Town	265	40	10	70	37	28
Hanthawaddy	192	22	...	328	69	...
Tharrawaddy	...	...	...	...	...	...
Pegu	26	...	...	950	...	...
Prome	61	61	...	17	17	...
Bassein	...	...	...	...	...	...
Henzada	...	...	...	...	...	...
Myaungmya	97	144	54	5	433	6
Ma-ubin	...	...	...	...	...	...
Pyapôn	47	2	...	325	25	...
Toungoo	39	33	...	924	900	...
Thatôn	3	1	...	9	1	...
Amherst	13	12	...	327	113	...
Tavoy	387	111	3	4,689	2,812	520
Mergui	90	27	...	413	199	...
Thayetmyo	...	...	...	...	...	...
Pakôkku	64	...	64	6	...	6
Minbu	...	...	...	...	...	...
Magwe	...	...	...	...	...	...
Mandalay	87	83	...	704	687	...
Katha	224	6	...	16,033	...	...
Shwebo	...	...	...	...	...	...
Sagaing	830	152	101	116	19	15
Lower Chindwin	...	...	...	...	...	...
Upper Chindwin	...	...	...	...	...	...
Kyaukse	...	...	...	...	...	...
Meiktila	...	...	...	...	...	...
Yamèthin	6	6	6	856	856	856
Myingyan	...	...	...	...	...	...
TOTAL FOR 1909-10 ...	2,431	700	238	25,772	6,168	1,431
TOTAL FOR 1908-09 ...	556	241	50	5,452	(a)	(a)

(a) Figures

Local Staff in 1909-10 (Paragraph 16.)

Resurveys and Extension Surveys by the Local Staff.					Holding Surveys of impermanent Island cultivation in unsurveyed tracts.				Remarks.
No. of kwins			*Area Surveyed.*		*Number of holdings.*			Area surveyed.	
Surveyed wholly or in part.	Checked by Inspector.	Checked by Superintendent.	Gross area	Cultivated area	Surveyed.	Checked by Inspector.	Checked by Superintendent.		
8	9	10	11	12	13	14	15	16	17
			Sq. miles.	Acres.				Acres.	
23	17	2	18	10,277	...	...	...	...	
531	109	...	...	2,349	...	...	...	...	
...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	
1,098	453	48	47	29,704	2	...	...	85	
8	...	...	11	3,861	...	...	...	...	
68	68	12	54	28,082	...	...	...	...	
...	8	...	19	4,647	546	25	...	1,159	
9	9	...	19	4,815	...	...	...	...	
38	38	14	24	14,691	...	...	...	...	
27	27	2	52	23,336	...	...	...	...	
65	25	7	55	3,555	...	...	...	...	
370	187	44	62	21,581	8	...	8	19	
41	40	8	39	25,005	...	...	...	...	
45	28	2	61	21,959	227	4	3	1,215	
47	45	11	33	15,989	...	...	...	...	
65	30	...	2	1,281	...	...	...	...	
...	...	...	...	...	365	34	10	1,470	
...	...	...	...	...	...	...	...	...	
182	116	67	54	34,358	30,301	10,261	2,342	46,955	
...	...	...	...	...	3,869	861	114	8,813	
...	...	...	...	...	...	...	...	...	
187	78	6	39	17,885	...	...	...	...	
6	3	2	4	2,563	...	...	...	...	
124	25	6	31	19,202	417	255	...	4,110	
2	2	...	5	2776	6,125	1,172	142	23,229	
...	...	...	...	...	...	...	...	4,293	
...	...	...	...	...	...	...	...	...	
122	122	26	2	1,276	...	...	...	...	
...	...	...	...	...	...	...	...	...	
403	129	27	72	9,111	...	...	...	...	
...	...	...	...	...	8,147	2,095	407	19,423	
3,461	1,559	284	703	298,303	50,007	14,707	3,026	110,771	
(a)	869	160	710	351,432	(a)	(a)	(a)	118,923 93,313	= Gross area. = Occupied area.

not available.

STATEMENT XI.—*Statistics relating to*

District.	Daily average number of pupils on the rolls.	Number of days the school was in session.	Average number of days each pupil received tuition.	Number of pupils on the rolls on the 31st March.			Total income for the year.
				Pupils paying fees.	Free pupils.	Total.	
1	2	3	4	5	6	7	8
							Rs.
Akyab	17	250	212	21	...	21	249
Kyaukpyu	18	258	232	12	5	17	184
Insein	13	273	239	14	1	15	316
Pegu	25	268	242	17	8	25	460
Prome	15	281	249	13	1	14	298
Bassein	13	273	222	15	1	16	322
Henzada	17	256	210	14	3	17	344
Ma-ubin	13	269	268	16	...	16	365
Toungoo	14	261	264	15	1	16	407
Moulmein	25	248	236	18	6	24	592
Mergui	8	254	91	7	...	7	234
Pakôkku	28	265	265	5	22	27	86
Minbu	37	260	257	11	26	37	170
Mandalay	23	272	185	22	...	22	289
Katha	8	242	149	3	6	9	100
Sagaing	31	254	210	8	25	33	160
Lower Chindwin	19	250	132	8	11	19	140
Meiktila	28	273	206	20	3	23	238
Yamêthin	27	255	223	11	8	19	152
TOTAL FOR 1909-10 ...	379	261	215	250	127	377	5,106
TOTAL FOR 1908-09 ...	383	260	230	244	137	381	5,197

G. B. C. P. O.—No. 138, C. S. & L. R., 1(*a*), 13-10-1910—300—J. H.

Government Survey Schools, for the year 1909-10 (Paragraph 23.)

TOTAL EXPENDITURE FOR THE YEAR.					NUMBER OF PUPILS (I) PRESENTED AND (II) PASSED, AT THE LAST EXAMINATION IN						Remarks.
					Surveying.		*Arithmetic.*		*Revenue Law.*		
On Establishment.	On Scholarships.	On prizes and bonuses.	On other contingencies.	Total.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	
9	10	11	12	13	14	15	16	17	18	19	20
Rs.	Rs.	Rs.	Rs.	Rs.							
1,104	494	121	409	2,128	18	14	18	9	15	12	
1,140	704	80	237	2,161	14	7	15	3	15	3	
1,062	537	124	73	1,796	15	15	13	6	15	11	
1,221	960	90	219	2,490	25	15	25	9	22	8	
1,254	679	...	238	2,171	14	7	14	4	13	6	
1,128	921	90	370	2,509	16	12	16	5	12	6	
1,104	525	125	3	1,757	17	15	16	7	14	11	
1,128	955	...	345	2,428	15	11	15	9	11	9	
1,290	474	32	47	1,843	15	4	15	4	13	3	
982	1,008	...	676	2,666	22	22	20	18	21	18	
1,086	527	45	15	1,673	5	5	5	4	4	4	
864	1,013	...	295	2,172	24	19	24	10	24	20	
1,104	1,163	310	123	2,700	37	37	36	23	35	28	
928	705	116	123	1,872	21	15	21	7	21	10	
780	569	26	60	1,435	8	6	7	1	7	4	
1,164	967	176	105	2,412	33	23	20	14	32	29	
1,344	342	46	68	1,800	15	3	9	1	15	2	
1,104	1,151	104	42	2,401	19	9	17	6	18	10	
953	694	88	22	1,757	17	11	18	3	17	17	
20,740	14,388	1,573	3,470	40,171	350	250	324	143	324	211	
19,550	15,100	480	4,802	39,932	341	221	329	104	309	208	

LOWER BURMA.
DIVISIONS. DISTRICTS.
Arakan ... Akyab. Northern Arakan. Kyaukpyu. Sandoway.
Pegu ... Rangoon Town. Hanthawaddy. Pegu. Thanrawaddy. Prome.
Irrawaddy ... Maubin. Pyapôn. Bassein. Henzada. Myaungmya.
Tenasserim ... Toungoo. Salween. Thatôn. Amherst. Tavoy. Mergui.
UPPER BURMA.
Magwe ... Thayetmyo. Pakôkku. Minbu. Magwe.
Mandalay ... Mandalay. Shwebo. Myingyan. Ruby Mines.
Sagaing ... Shwebo. Sagaing. Lower Chindwin. Upper Chindwin.
Meiktila ... Kyaukse. Meiktila. Yamèthin. Myingyan.
Map
OF
BURMA
SHOWING
TRACTS UNDER
SUPPLEMENTARY SURVEY, 1909-10.
SCALE: 1 INCH = 64 MILES.
REFERENCES.
Boundary of provinces ... ...
Boundary of divisions ... ...
Boundary of districts ... ...
Boundary of Shan States ... ...
Headquarters of districts ... ...
Area under supplementary survey previously ...
Area brought under supplementary survey for first time during year.

LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDING THE 30th JUNE 1911

RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1911

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LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDING THE 30th JUNE 1911.

CHAPTER I.

INTRODUCTORY.

1. *Work of the year.*—The area under Supplementary Survey was increased by the addition of some 1,436 square miles of the lately settled area in the Pakôkku District. The rest of the settled area will come under Supplementary Survey next year. All districts proposed for settlement have now come under Supplementary Survey, and yearly increases will result only from Extension Surveys by local staffs. This year there were no Extension Surveys. In many parts they are badly wanted, and are generally remunerative. The expenditure this year on Special Surveys was insignificant. The Land Records Staffs in the districts carried on their duties under exceptional difficulties. Much of their time during the assessment season was devoted to census enumeration and supervision and the introduction of new forms with revised instructions added complications to their own work. Although the six probationers have completed their training and have been posted to independent charges, the deficiency of officers is likely to be felt until all the junior Superintendents have completed their training. One more probationer was appointed in November 1910, but one Survey of India officer has applied to return back to his post in the Survey of India. No orders have yet been received on Mr. Mathews's proposals to reorganize the subordinate establishment. In Upper Burma the staff is in many districts inadequate to cope with the work and as a result in Lower Chindwin, Meiktila and Myingyan the Settlement parties have found many inaccuracies in the Supplementary Survey work. The Subordinate Staff in Kyaukpyu and Katha and parts of Shwebo are reported to have been unsatisfactory in the discharge of their duties. District Officers are, however, inclined to expect a degree of perfection in revenue surveyors on Rs. 30 per mensem that they would not look for in Statistical clerks on Rs. 150.

The gross area in which Supplementary Survey was maintained in Burma during the year of report amounted to 49,643 square miles containing 16,195,660 acres under occupation. The local staffs in addition to their own duties were able to revise the survey over 554 square miles containing 214,653 acres under cultivation, while the special staffs revised an area of 63·64 square miles. The *net* cost of the Department remains the same as reported last year. During the year the Government of India sanctioned on a temporary footing the entertainment of the Special Staffs proposed in accordance with Mr. Gibson's scheme for the revision surveys which are beyond the energies of the regular staff. The surveys will be commenced, except in Pegu, in 1911-12 under the control of the Superintendent of Land Records of the district.

CHAPTER II.

SPECIAL DEMARCATION AND SURVEYS.

2. *Demarcation preliminary to Survey.*—Nil.

3. *Revision Surveys by Special Staff.*—Under the orders of the Financial Commissioner the Special Survey Party which was broken up the year before last Statement II.

was to be reconstituted in a modified form, and a programme of survey was drawn up, but in the end it was not found possible to allocate funds for the operations.

The mapping and area work of the previous year's revision surveys by Special Staffs in the Hanthawaddy and Yamèthin Districts were duly brought up in the recess months. In Hanthawaddy the local Surveyors took part in this work. The recess work was examined in both districts by the Assistant Director and proved to be of a good quality. The total cost of the operations in the two years works out in Hanthawaddy at Rs. 189·70 per square mile and annas 6·35 per occupied acre and in Yamèthin at Rs 114·93 per square mile and annas 3·89 per occupied acre.

During the year revision surveys by special agency were conducted only in the Kyaukpyu and Mergui Districts. They were in charge of the local Superintendents who were helped in the supervision by the respective local Inspectors. In the Kyaukpyu District, the local Surveyors assisted in a portion of the surveys; and in the Mergui District the areas included two new *kwins* in the tracts outside Supplementary Survey. The requisite holding-marking was done simultaneously with the survey. The Assistant Director inspected the field-work at both centres and was satisfied of its execution on professional lines. The Survey of India Training Camp completed the re-survey of 2,273 acres of cultivation in the Yamèthin District. The 16-inch scale contour survey of the Hlawga Lake area which was begun last year was handed over for completion to the Rangoon Municipality. The recess work appertaining to the surveys of the year has been completed in Mergui, and is now progressing in Kyaukpyu.

4. *Extension Surveys by Special Staff.*—No funds were allotted for the execution of these surveys during the year under report.

Statement IV.

5. *Town Surveys.*—Town demarcation and surveys were restricted in the year for financial reasons. In Hanthawaddy District, Syriam Town was demarcated preliminary to a large-scale survey which is to follow. A portion of Tavoy Town in the Tavoy District required further demarcation chiefly in relation to Government waste and religious lands and this was satisfactorily accomplished with the *Akunwun* as Demarcation Officer. In the Katha District 3 towns were demarcated and surveyed on the 64-inch scale, and the maps are ready. Both demarcation and survey are reported to have been well done. The survey was supervised by the local Superintendent. The survey of Yamèthin Town in the Yamèthin District was continued by the Junior Land Records Officers under training with an Officer from No. 10 Topographical Survey Party. An area of 279 acres was traversed and mapped in detail on the 64-inch scale. The demarcation which was done the previous season was still reported to be defective, and a further enquiry will be made. The preparation of town lands rolls was deferred in Katha in expectation of revised directions on the subject.

Statement V.

6. *Fishery Surveys.*—The demarcation and survey of fisheries were confined to 44 fisheries in the Pegu District and 37 fisheries in the Myaungmya District. In both cases small establishments were employed on the work under the supervision of the local Superintendents. The field-work was checked in Pegu by the *Inkunwun* and in Myaungmya by the Superintendent. It is said to have been of good quality. The maps of Pegu are ready for printing, but those of Myaungmya are to be made over for completion to local Surveyors, the special staff having been disbanded at the close of the financial year.

Statement VI.

7. *Patta Surveys by Special Staff.*—In the Arakan Division all the *pattas* related chiefly to ordinary cultivation, while in other parts the leases mostly were for the cultivation of special crops, such as rubber, castor oil and Tree cotton. In Kyaukpyu it is reported that there is a marked decrease in applications for land, due to the available waste area having diminished and also to the discouragement of applications from non-agriculturists. In the districts of the Tenasserim Division the leases are chiefly for rubber cultivation, and the areas are extensive. From Tavoy it is reported that a large decrease in the applications

for leases to cultivate rubber has occurred owing to anticipations of a high rate of assessment. The survey in Minbu with the object of laying out in suitable plots the available waste area commanded by the new Môn Canal was revived during the year, but the staff were engaged on the demarcation of cattle-paths, roads, etc., over the whole area. The work was stopped by the Financial Commissioner in May pending further enquiry. Paths were marked round 120 acre blocks over 55 *kwins* containing 37,800 acres of cultivation and brought on to the maps. The work has been omitted from Statement VI. A staff of 3 Inspectors and 30 Surveyors are reported to have been entertained for one month at a cost of Rs. 2,449. In 8 districts the staff were remunerated at contract rates; in Minbu they received regular pay, and in one district payment was made partly by both methods. Except in Minbu the fees levied were mostly at the rate of annas 8 per acre, but for specially large areas easy of survey the rate was reduced and for specially difficult work increased. The fees realized were much in excess of the cost incurred for the survey in Mergui, Toungoo, Thatôn and Amherst and as experience has shown in the survey of rubber leases, the fees should be proportionately reduced according to the size of the block to be surveyed and on a consideration of the physical features and the character of the vegetation. Exclusive of Minbu, Special Inspectors were only employed in Amherst. Tavoy, however, entertained 2 Special Inspectors for checking mining concessions. The local Inspectors checked the surveys everywhere, and the Superintendents in some districts. The Township Officers inspected work in a few instances and the Deputy Commissioner of Sandoway in two cases. As a whole the surveys are reported to have been well done. In Pegu two applicants for grants of large areas failed to clear their boundaries and demarcation was therefore postponed and no survey carried out. In Amherst the applicants failed in many cases to carry out the demarcation. In Thatôn one Surveyor's work had to be rejected, and no competent traverse Surveyor could be obtained for the survey of 7,000 acres applied for with the intention of cultivating Tree cotton. In Tavoy, where the arrears are most considerable, difficulty was experienced in obtaining qualified Surveyors.

CHAPTER III.

SUPPLEMENTARY SURVEY WORK.

8. *Rural Area under Supplementary Survey.*—Owing to the introduction of Supplemetary Survey into three townships of the Pakôkku District the total rural area worked over by the Land Records Department rose from 48,212 to 49,418 square miles. The increase would have been greater but for the exclusion of forest reserve areas and of waste land grants which had erroneously been included last year in certain district returns. The occupied area rose two and a half per cent.; this is accounted for by the inclusion of the Pakôkku figures and small extensions of cultivation in other districts. But the cultivated area, so far from keeping pace with the occupied area, fell 24,042 acres; the insufficient early rainfall in the dry zone resulted in much land usually placed under early sessamum being left fallow. The area under assessment fell in correspondence with the decrease in the cultivated area, but the total assessment rose Rs. 2,69,843. The introduction of new settlement rates partially accounted for an increase of over one lakh in Minbu District and in Myaungmya and Thatôn of Rs. 32,689 and Rs. 43,038 respectively. The large increase in Shwebo is attributed to timely rainfall and careful inspection. In Meiktila the assessment increased by Rs. 65,816 due, it is said, to better supervision. There was a large rise in Pegu where favourable early rain led to the fallowing of less land than usual, but this was counterbalanced by falls in the Yamèthin and Magwe collections. It should be noted that the increase is not attributable to introduction of the new settlement in Pakôkku; although Supplementary Survey was carried on in three townships throughout the twelve months, no rates of assessment were notified till the close of the year.

Statement VII.

Statement VII.

9. *Supplementary Survey in Towns.*—The towns now under Supplementary Survey number 158 as against 137 last year. In Hanthawaddy work was extended to eight more towns, but seven of these have not yet been surveyed on the 64-inch scale. There is an increase of five towns in the Bassein District, but this is apparent only, the result of a mistake in last year's figures. In Thatôn work was undertaken in two more towns, in Prome in one, in Katha in three and in Pakôkku for the first time. There are still four districts, one in Arakan and three in Upper Burma, where no towns are under Supplementary Survey while in some towns the introduction of Supplementary Survey has been deferred pending final orders on the form of the Town Lands Roll. Again there are two or three Upper Burma districts in which survey is kept up, but the Register of Holdings and the assessment roll are not prepared except in respect of agricultural land. The assessed area increased by 10,790 acres, almost four times the rise in the occupied area, and now amounts to 78 per cent. of the occupied area, if the figures can be trusted. This however is doubtful, for seven districts report the assessed area to be as large as the occupied area. As holdings which do not exceed a quarter of an acre are exempt from land revenue, the two areas should not ordinarily be the same. An area of 6,900 acres reported from Tharrawaddy District for the first time accounts for most of the increase. The total revenue and rent collection rose from Rs. 6,84,600 to Rs. 8,17,170 in the year. There were large increases in Rangoon Town, Tharrawaddy and Hanthawaddy and smaller increases in Pegu, Bassein and Toungoo. Assessments by the Supplementary Survey staff are reported for the first time from Tharrawaddy, Thayetmyo and Magwe Districts.

Statement VIII.

10. *Cost of the Supplementary Survey Staff.*—The number of Inspectors entertained in the year was eleven and of surveyors fifty-one more than in 1909-10. The Pegu and the Rangoon Town staffs were largely strengthened, but the chief cause of the increase was the entertainment for the first time of the Pakkôku staff. In consequence of these and of other minor changes the total cost of Supplementary Survey rose from Rs. 14,13,260 to Rs. 14,74,029. The incidence per square mile of total area increased from 29·19 to 29·69. This is largely attributable to the exclusion of forest reserve areas in Myingyan and Magwe from the figures of total area. Corresponding to the increase in the establishments entertained the incidence per occupied acre was ·023 higher than in 1909-10, while the percentage of the total cost of Supplementary Survey to the revenue collected was 4·94 as against 4·80 in the previous year.

11. *The Preparation and Submission of Assessment rolls.*—Strict punctuality in the submission of the *Kaukkyi* assessment rolls could not be expected in the year of report. The staff was hampered by census work, by the late receipt of the new forms and by the difficulties attendant on their introduction. However in Akyab, Sandoway, Prome, Pyapôn, Rangoon Town and Thayetmyo the rolls were ready on or before the due date. Only in Magwe and to a less extent in the Lower Chindwin was the delay excessive. In the other districts it was inconsiderable. In Mandalay, however, it was found necessary to entertain fifteen copyists for a month and a half to write up the rolls and in Sagaing the surveyors are reported to have hired assistance at their own expense. In Minbu uncertainty whether the revenue was this year to be collected at the full rates lately sanctioned or at modified rates delayed the rolls and resulted in much erroneous assessment. The rolls of the three other assessment seasons were in most districts submitted punctually or the delay was not important. This applies also to the town assessment rolls.

During the year a bad instance of failure to assess at the sanctioned rates, which has resulted in the loss to Government of over Rs. 8,000, came to light in the Kyaukpyu District. In Mandalay an assessment on a second crop in certain tracts was discovered to be unauthorized and was discontinued.

Statement IX.

12. *Inspection of Supplementary Survey field-work.*—The volume of inspection done by the Land Records staff was less than in the preceding year. For this the census was to some extent responsible. The number of *kwins* inspected by Superintendents fell from 2,941 to 2,736. In most Upper Burma districts the number exceeded a hundred, but only in three Lower Burma districts was that

number reached. The largest number of inspections was done by Maung On Pe in Meiktila. In Shwebo Mr. Powell made very thorough inspections. The districts in which Superintendents did an insufficient amount of this work were Akyab, Sandoway, Hanthawaddy, Pegu, Bassein, Minbu and Sagaing. The Superintendent at Minbu, Mr. Fforde, is reported to have made one tour of inspection but submitted no notes. He has been called on to explain his failure. The average number of *kwins* checked by the Inspectors was 95 as against 108 last year. In Sandoway, Ma-ubin and the Lower Chindwin the amount of work done by them was inadequate.

The number of *kwins* inspected by Deputy Commissioners rose from 182 to 222, but the credit is shared by a smaller number of officers. In nine districts no inspection was done and in eleven the number of *kwins* inspected was less than five. In Pegu Major Ormiston visited 28 *kwins* as did Mr. Lowry in Myaungmya. In Ma-ubin Captain Roberts made 22 inspections and Mr. Christie made the same number in Minbu. Neither Subdivisional nor Township Officers were as active as in the previous year, and the inspections made by them declined from 749 to 586 and from 1,671 to 1,305 respectively. Those who did the largest amount of this work were, among Subdivisional Officers, Mr. J. Adamson, Maung Po Kyu, A.T.M., Maung Myat Tha Gyaw, K.S.M., T.D.M., Maung Po Te (2), A.T.M., and Maung Thin, A.T.M., and among Township Officers, Maung Po Kye, Maung Aung Gyaw, Maung Kyaw Zan (2), Maung Tha Dun Gyaw, Maung Paw Shan, Maung Pan Myat, Maung Ba Htin, Maung Maung Gale (1), Maung Po Tun (1) and Maung Aung Nyein.

The result of the inspections done, so far as concerns assessment, was to bring to light 3,397 errors and to increase the revenue by the net amount of Rs. 12,257. In Bassein the marking of fallows was found to have been badly done, but the largest increase consequent on inspection was in Shwebo where four surveyors were dismissed for dishonest work.

All the Land Records Offices and record-rooms were inspected by the Commissioner of Settlements, the Deputy Director or the Assistant Director. Field-work was inspected in every district under Supplementary Survey except Myingyan. The Deputy Director and Assistant Director paid special attention to the Supplementary Survey in towns. The Supplementary Survey in rural areas of the districts of Myaungmya, Bassein and Henzada was not inspected. The quality of the inspections done by the Deputy Director and Assistant Director was very good. The staff had not in many districts yet adopted the instructions in the Land Records Manual or had misinterpreted them. The inspections were extremely useful in pointing out these mistakes. The arrangement and preservation of records, the correctness of assessments according to the notified rates, and the preservation of permanent survey marks were other points of which particular notice was taken.

13. *Supplementary Survey by the local staff.*—Statement X exhibits the quantity of survey work done by the local staff during the year. Except in Mergui where 1,100 acres leased for rubber cultivation were surveyed, the area of new grants and leases surveyed was small. The cultivated area over which revision and extension surveys were carried out, was 214,653 acres, 58,083 acres less than in 1909-10. But it is doubtful how far the figures of the two years can properly be compared. Amended directions were issued in the course of the year to the effect that only where there are compact blocks sufficiently large to require the use of the plane table, should the area surveyed be brought into the statement. It may thus be possible for the staff to do much in the way of bringing the *kwin* maps up to date and yet there may be no entries in Statement X as in the case of Pyapôn, this year. In Pyapôn surveying with the chain, offset rod and optical square was done over scattered and broken patches of land to the extent of 14,610 acres, but the plane table was not used and the return is therefore blank. It is, however, doubtful whether the plane table should not have been used over parts of so large an area. In Shwebo almost 30,000 acres were thoroughly revised and in Hanthawaddy over 28,000. Myaungmya returns 20,528 acres and Mandalay, Thatôn and Henzada over 15,000. The reports from other districts are not so

Statement X.

satisfactory and in Tharrawaddy and Sandoway this work was neglected. The area of impermanent island cultivation surveyed during the year was 91,845 acres as against 110,686 acres in 1909-10. There is a large decrease in the Pakôkku figures as reported, but it seems doubtful whether they are correct and enquiry will be made.

14. *Scheme for future revision surveys.*—No work was done in the year under the programme of revision survey drawn up by Mr. Gibson for nine districts in Lower Burma; sanction to the entertainment of the staff was not received till after the year had closed. From many districts programmes for revision survey within the next three years have been received. But it does not appear to be generally understood that such programmes should only be submitted when the local staff, assisted in the nine Lower Burma districts by the surveyors entertained under Mr. Gibson's scheme, is unable to cope with the work. It should only be in exceptional circumstances that the services of a special staff will be required, and when this is the case and a programme is submitted, the reasons why the survey has fallen so far out of date that the local staff cannot deal with its revision should be fully set out.

15. *Preservation of permanent Survey and boundary marks.*—The care of permanent survey marks lies primarily with village headmen: they are bound in November and December to inspect, and report on the condition of, all marks in their jurisdiction. Action on their reports is taken later by the Land Records Department: in March the Revenue Surveyor renews all broken marks and the Inspector replaces lost marks. Such are the rules but inspection has shown, that they are neglected in many districts. In Magwe only 41 out of 496 headmen sent in the prescribed report. In Bassein it was found that marks reported by the headmen as intact were in reality broken. In Minbu the Deputy Commissioner believes the surveyors to have furnished fictitious reports. In Pyapôn only 4 out of 1,838 missing marks were replaced by Inspectors during the year. But there are exceptions to the general neglect. In Katha and Mandalay Districts the work is well done and Pegu and Hanthawaddy report an improvement on previous years. In Thatôn interest has been enlisted by the presentation in open durbar of certificates to the headmen who have taken trouble to see to the marks in their charges.

The protection of permanent survey marks in towns by pillars of masonry or reinforced concrete is engaging attention. Some progress has been made in Toungoo, Thatôn, Amherst, Yamèthin and Mandalay and in many other districts it is proposed to take the work in hand next year if funds are available. The preservation of boundary marks in towns has not everywhere received the attention which it merits and several district reports omit all mention of it. In Mandalay Town these marks have been largely neglected and in Bassein the condition of many is reported to be unsatisfactory. In Pyapôn natives of India are said to remove the marks wilfully and in Mergui house-owners take no interest in their preservation.

16. *Inspection of Supplementary Survey Recess work.*—In at least four districts—Sandoway, Ma-ubin, Minbu, and Magwe—the inspection of surveyors' and Inspectors' offices done by the Superintendents in the recess was insufficient. In Hanthawaddy Inspectors were carefully taught the way in which to examine a surveyor's office, but the number of inspections done by the two Superintendents themselves is not mentioned in the report. The Henzada, Tavoy, Kyauksè and Yamèthin reports are similarly silent. On the other hand the Superintendents in Katha, in Mandalay, and to a less extent in Thatôn, made numerous inspections. The Inspectors in Bassein, Prome and Magwe visited all surveyors' offices twice or thrice, but in many districts it is apparently considered sufficient for the Inspector to visit a surveyor's office once a year. It is not uncommon for surveyors to put off recess work as long as possible and only frequent visits can check this tendency. The inspections of surveyors' offices made by District Officers were so few as to be negligible; as the Commissioner of Pegu remarks, occasional inspection by them would be very valuable.

17. *Miscellaneous duties of the Land Records staff.*—

(*a*) The check of measurements in areas outside Supplementary Survey did not receive too much attention last year. In seventeen districts the Superintendents and Inspectors did not test these measurements at all. It is true that in some of these districts the unsurveyed areas are small but in others the work is of importance and should not have been altogether neglected.

(*b*) The check of tax-tickets by Superintendents and Inspectors was in general adequate. More however should have been done in Shwebo, the Lower Chindwin and Yamèthin. Only in two districts did the check bring to light anything except clerical errors. In Shwebo though the tickets in one village had been altered, responsibility could not be fixed on the headman. In Magwe the tickets were tampered with in four villages. One headman who had delegated the duty of collecting his revenue was fined; in the other cases inquiry was pending at the close of the year.

(*c*) Grazing-grounds were demarcated in Akyab, Bassein, Myaungmya, Pyapôn, Prome, Toungoo, Thatôn, Amherst and Tavoy in the course of the year. Boundaries were revised in Hanthawaddy and Myaungmya. The replacement of the wooden posts, at present used in most places, by pillars of reinforced concrete is under consideration in many districts. Except in Ma-ubin surveyors were active in detecting encroachment, but in some cases the absence of adequate demarcation made it impossible to prosecute successfully the offenders.

(*d*) District Officers in Lower Burma are now for the most part agreed that reports of alienations are made with more regularity than before; the law is better known and more acted upon, but there is still room for improvement. In Upper Burma the revenue surveyor was during the year substituted for the village headman as the recording authority to whom all transfers must be reported. It is still too early to say whether this change will result in a more regular record of transfers, but except in Mandalay it is admitted that the former system had proved a failure. Except in Pakôkku the Civil Courts and Registration Offices furnished regularly copies of certificates and of the indexes to the surveyors.

(*e*) The lists of unauthorized alienations of land which the rules prescribe, were not prepared in Myaungmya; the record-keeper could not cope with the work. Probably these lists were not prepared in Henzada and Bassein; at any rate the reports from these districts are silent on the point. In Hanthawaddy and Pegu it is noticed that unauthorized transfers are now less frequent; it may be that this is the result of the action taken in the last year or two.

18. *The condition of Land Records Offices and Record-rooms.*—Twenty-five Land Records Offices were inspected by the Commissioner of Settlements and Land Records and by the Deputy and Assistant Directors in the course of the year. The offices at Ma-ubin and Sagaing were found in poor order. The rearrangement of the Record room on the lines laid down in the Land Records Manual has not yet been completed in Bassein, Myaungmya, Tharrawaddy, Pegu, Minbu and Sagaing. In Bassein the reason for the delay is stated to be inadequate accommodation. The same complaint comes from Tavoy, Thatôn and Pakôkku.

19. *Conduct of the Subordinate Land Records staff.*—Thirty-four Surveyors were removed or dismissed in the course of the year, but no Inspectors were so punished. The staffs which are badly spoken of, are the Kyaukpyu, Katha, Shwebo, Yamèthin, Thatôn and Ma-ubin staffs, but in the last two districts there has been an improvement.

CHAPTER IV.

TRAINING OF OFFICERS.

20. *Survey Schools.*—The number of Government Survey Schools continues at 19. All but 5 are accommodated in Government buildings. After the close of the Session, the Mergui School was shifted to Tavoy and the Sagaing School was Statement XI.

transferred to Shwebo. The total number of pupils on the rolls of the Schools on the 31st March was 321. Of these 127 paid no fees. Exemption from the payment of the fee is often too freely granted. There has been a gradual falling off in the attendance, for which various causes are ascribed. Chief among these are the presence of plague in the towns, the restriction of special survey operations, the comparatively poor pay and prospects offered by the Department, the more stringent rules relating to the Class test-examinations, and the disinclination of rural parents to send their boys into the temptations of large towns. The Schools with most pupils were those of Minbu, Sagaing, Moulmein, Lower Chindwin, Pegu, Meiktila and Pakôkku. Of the candidates admitted into the Schools, 16 per cent. had passed the VII Standard and 20 per cent. the VI Standard. The attendance at Class was fairly regular. The full available number of Scholarships were allotted, but some of these were subsequently forfeited owing to different causes or lapsed from withdrawals. The amount paid in Scholarships was Rs. 14,592. The proportion of the sons of *Thugyis* and agriculturists to traders and others was as 2 : 1. The total expenditure in the maintenance of the Schools amounted to Rs. 40,377, as against an income from fees and other sources of Rs. 4,303; the net cost was therefore Rs. 36,074. This works out to a cost-rate of Rs. 107 per pupil, which is somewhat more than last year, though it cannot be considered to be high for technical education.

At the Syndicate Examination of April last the number of candidates who obtained passes in Surveying was 203, in Arithmetic 212 and in Revenue 116. This gives a percentage of passes in the respective subjects of 67, 72, and 42. The results are good in Surveying and Arithmetic, and fair only in Revenue; they are as a whole slightly inferior to the results of the year before. The subject of Revenue requires more attention paid to it in most of the Schools. The Schools that did best were the Schools with most pupils, except Lower Chindwin, Pegu and Meiktila. Mandalay got 100 per cent. of passes. The unsuccessful ones were those of Yamèthin, Katha, Kyaukpyu and Toungoo. The 'Clancey' medal for Surveying was won by a student of the Bassein School. A prize was given by the Deputy Commissioner (Mr. Leveson) for the Insein School on the net result of the Syndicate Examination and was duly awarded. Most of the teachers have performed their duties satisfactorily; in particular those of Minbu, Sagaing, Moulmein, Pakôkku, Bassein and Mandalay. The exceptions are the late teacher at Mônywa, who was removed from his post, the teacher of Toungoo who has now been superannuated, and the teacher of Kyaukpyu who has turned lax. The teacher at Mandalay has been permitted to hold collateral charge of the Plan-drawing Class in the Burma Police Provincial Training School at Mandalay. At Yamèthin the permanent teacher took a year's leave.

All the Schools, without exception, were inspected during the year by one or other of the three Administrative Officers of the Department. The condition of the Schools at Katha, Kyaukpyu, Mônywa, Toungoo and Pegu was unsatisfactory, and closer supervision by the Superintendent is required at these places. Field-work is everywhere well practised, but at some of the centres, through a misconception of the directions, it was not being taught in the earlier months of the School term. The local Superintendents paid periodical visits to their Schools, but more should have been done in this direction at Ma-ubin, Henzada and Minbu. Passed students do not appear to have much difficulty in finding employment, but in the Land Records Department they usually have to serve their apprenticeship first, and have not yet entirely overcome their objection to working outside the district they live in.

21. *The Training of Apprentices.*—The number of apprentices under training during the year was 382. Of these 205 appeared at the test examination and out of that number 149 passed and received certificates. No examinations were held at Pegu, Myaungmya, Minbu and Sagaing, and the reasons given are in each case unsatisfactory. The standard demanded is high in most districts, but in Pyapôn four apprentices who did indifferently were granted certificates with an endorsement that they ought to pass another examination before receiving permanent appointments. This procedure defeats the whole object of the test examination.

In Tavoy complaint is made that apprentices after passing the test examination are enticed away from Government service by the high pay offered by mining companies. Similarly in Upper Burma districts the superior attractions offered by the Irrigation Department deprive the Land Records Department of its most promising candidates: thus in Mandalay out of eight survey school pupils who last year passed the three Educational Syndicate examinations, not one has applied to be taken on as a Land Records apprentice.

22. *The Qualifications and Training of the Subordinate staff.*—Only qualified men were permanently appointed as Surveyors in any district. The rules provide that an inspector shall have passed the seventh standard but it is not always possible to give effect to this in Upper Burma. In Lower Burma the case is different and it is very rarely that any exception is now made to this rule. Superintendents are expected to give personal instruction to Inspectors and Surveyors at the beginning of each field season. How far this was done last year, it is difficult to say, for many district reports omit to state clearly the nature and extent of the training given, if any. In Pakôkku however where Supplementary Survey was introduced for the first time, the staff received careful instruction. Census work interfered with training in the use of the theodolite which was given in ten districts only.

23. *Training of Junior and Probationer Superintendents.*—The headquarters of the survey training camp were at Yamèthin throughout the year. Three Superintendents and three Probationers entered the camp in November and were still under training at the close of the year. The training was confined to cadastral survey in Rural and Town areas. The outturn of work was good in quality but unsatisfactory in quantity. Proposals, with slight modifications in the course of training, have been submitted for the completion of the training in July 1913. After that date it is hoped to train probationers with the local survey parties. Another probationer was being trained at Dehra Dun. The six probationers who had joined the survey camp in November 1909, left it at the end of October 1910, and were posted to district headquarters for six months' instruction in ordinary Land Records work. In some cases the Superintendents to whose charge they were confided, failed to see that enough touring was done. It is very important that probationers should be taught the importance of field-work. All successfully passed the final examination at the end of the six months.

24. *Training of Civil Officers in Survey and Land Records work.*—Six Assistant Commissioners, five members of the Provincial Civil Service and forty-two Myoôks received a training in Survey and Land Records work in the course of the year.

CHAPTER V.

ADMINISTRATION AND GENERAL.

25. *Gazetted Staff.*—Mr. H. M. S. Mathews proceeded on leave for one year at the beginning of March 1911. Mr. T. Couper, C. S., who had taken over the duties of Deputy Director in November 1910 from Mr. C. W. Dunn, C. S., officiated as Commissioner of Settlements and Land Records till the end of May, when Mr. A. Gaitskell, C. S., relieved him. Mr. J. C. Clancey was Assistant Director throughout the year and from March to the end of May carried on the duties of Deputy Director in addition to his office. In numbers the Department was at its full strength throughout the year; one more Probationer was appointed in place of one Superintendent transferred to the Provincial Civil Service. At the close of the year there were 36 Superintendents and 10 Assistant Superintendents. Long leave was granted to 4 Superintendents during the year. Another was pronounced medically unfit at the beginning of this year. On the conclusion of the six Probationers' training in Land Records work at the end of

this year, two of the Myoôks acting as Superintendents, were transferred to the Judicial Civil Service, and one reverted to his post as Inspector of Land Records. One is still holding charge of a Superintendent's appointment.

26. *Replacement of* Taik-thugyis *by Revenue Surveyors.*—Thirteen circle thugyis died or retired in the past year. The number of surviving officials is 131. In Pegu the *taiksayes* were during the year converted into revenue surveyors and circle thugyis were relieved of all duties in connection with survey and assessment, but continue to pay the salaries of the converted surveyors.

27. *Famine.*—Arrangements were made for the transfer of the Forms under the Famine Code from the Revenue to the Land Records Guard-book. The Analyses of districts with regard to security against Famine were not prepared afresh during the year; and no action was required to be taken under the Famine Code. Local measures were sufficient to alleviate the distress caused by the failure of the *taungya* crops in Tavoy last year and the partial failure this year, and the villagers were able to obtain work at the mines. In Thayetmyo signs of scarcity showed themselves in parts of the Allanmyo and Thanbula Townships, but cutch licenses were freely issued; the poorer cultivators obtained a livelihood by other forms of labour than cultivation, and there was no abnormal demand for labour on the works started out of district funds in the tracts where crop failures were most pronounced. The completion of the Môn Canals project will put a large part of the Minbu District out of reach of Famine. The Programme of Famine Relief Works was revised during the year.

28. *Miscellaneous.*—The already numerous amendments to the Land Records and Survey Manuals show clearly that a revised edition of both will before long be necessary. The Burma Settlement Instructions issued during the year. The directions for the preparation of the fortnightly and half-yearly returns of prices and wages will require some amendment. The district returns show that the present directions are in many cases misunderstood. The fortnightly returns of wholesale and retail prices were published regularly. The rise in prices in recent years will necessita e a revision of the normal prices in the schedule. The crop forecasts in most districts were fairly accurate as to area, but subsequent enquiries show that in the rice crop forecast sufficient allowance was not made by some districts for the grain threshing out light. Considerable errors were made in the forecasts of the cotton and groundnut crops of two districts. Careful enquiries have been made as to the causes of the difference between the forecasted and actual production of cleaned cotton. The Inland Trade Registration Department continued to be under the control of the Commissioner of Settlements and Land Records, and is reported on separately.

A. GAITSKELL,

Offg. Commissioner of Settlements and Land Records, Burma.

MAYMYO, *22nd September* 1911.

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STATEMENTS NOS. I AND III.

Nil.

STATEMENT NO. II.—*Area under, and Cost of, Revision Surveys (by Special Staff only), in* 1910-11

(Paragraph 3).

District.	Traverse (Field).						Cadastral (Field).													Cadastral (Recess).		Cost (Field and Recess).			Remarks.
					Mathematical results.		Staff.			Kwins.		Area.		Fields.			Kwins partialled.								
	Sub-surveyors.	Period.	Kwins.	Area.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Whole.	Part.	Gross.	Occupied.	Number.	Average size.	Kwins holding-marked.	By Superintendent.	By Inspectors.	Compo-Inspectors Draughtsmen, clerks, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	No.	Mths.	No.	Sq mls.	Seconds.	Links.	No.	No.	No.	Mths.	No.	No.	Sq. mls.	Acs.		Acs.	No.	No.	No.	No.	M.	Rs.	Rs. A.	A. P.	
Kyaukpyu	..	...	...	...	...	...	..	3	...	6	19	1	45·29	10,001	66,633	·15	...	5	20	...	...	1,706	37 11	2 9	
Hanthawaddy.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*18*	*6*	*4,129*	*38 11*	*1 4*	
Mergui ..	1	3	16	17·51	·01	·01	..	2	1	3½	16	...	17·51	8,421	8,167	1·03	16	16	13	3	3	2,634	150 7	5 0	
Yamèthin	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*9*	*6*	*2,109*	...	...	
TOTAL FOR 1910-11	1	3	16	17·51	·01	·01	...	5	1	3½—6	35	1	62·80	18,422	74,800	0·25	16	21	33	3	3	4,340	69 2	3 9	
TOTAL FOR 1909-10	3	6—7	119	125·50	6—11	0·10—0·52	3	22	7	3—6	175	4	199·11	91,606	174,414	0·65	179	64	179	26	3—6	12,178	116 6	4 1	

STATEMENT NO. IV.—*Area under, and Cost of, Demarcation and Survey of Town Lands in* 1910-11

(Paragraph 5).

District.	Demarcation.					Survey.												Cost (Field and Recess).
						Traverse (Field).				Cadastral (Field).						Recess.		
	Demarcation Officers.	Period.	Towns.	Area.	Cost.	Sub-Surveyors.	Period.	Towns.	Area.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Towns.	Area.	Inspectors, Draughtsmen, and Computors.	Period.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		Months.		Sq. Miles.	Rs.		Months.		Sq. Miles.				Months.		Sq. Miles.		Months.	Rs.
Hanthawaddy ...	1	4	1	3·60	1,335	...	...	...	...	...	...	...	...	..	...	...	...	...
Tavoy ...	1	2½	1	1·41	436	...	...	...	...	...	...	...	...	..	...	...	...	...
Katha ..	1	3	3	0·84	373	1	2	3	0·81	...	2	1	3	3	0·84	4	2	1,288
Yamèthin ...	1	2	1	1·37	419	...	...	..	...	...	...	...	...	..	...	...	...	...
TOTAL FOR 1910-11 ..	4	2½—4	6	10·72	2,563	1	2	3	0·84	...	2	1	3	3	0·84	4	2	1,288
TOTAL FOR 1909-10 ...	7	2—12	7	9·32	10,081	3	1—2	4	3·24	2	11	4	3—5	4	5·29	14	3—4	8,552

STATEMENT No. V.—*Area under, and Cost of, Demarcation and Survey of Fisheries (by Special Staff only) in* 1910-11 (Paragraph 6).

District.	DEMARCATION.					SURVEY (FIELD).					
						Staff.			Fisheries Surveyed.	Fisheries Inspected	Cost (Field and Recess).
	Demarcation Officers.	Period.	Fisheries.	Area.	Cost.	Surveyors.	Draughtsmen and Clerks.	Period.	Whole.	By Superintendent.	
1	2	3	4	5	6	7	8	9	10	11	12
	No.	Mths.	No.	Acs.	Rs.	No.	No.	Mths.	No.	No.	Rs.
Pegu	1	3	44	...	450	2	...	3	11	...	300
Myaungmya	1	2	37	...	409	4	1	3	27	27	878
TOTAL FOR 1910-11 ...	2	5	81	...	859	6	1	6	81	27	1,178
TOTAL FOR 1909-10 ...	1	3	242	37,760	662	4	...	4	180	...	1,038

STATEMENT No. VI.—*Area under, and Cost of, Patta Surveys (by Special Staff only) in* 1910-11 (Paragraph 7).

District.	SURVEY.									PLOTS CHECKED			
	Staff.			Pattas.				Fees.		Cost.		By Superintendent.		By Inspectors.	
				For Survey.		Surveyed.									
	Inspectors.	Surveyors.	Period.	No.	Area.	No.	Area.	Rate per acre.	Amount realized.	Contract system.	Regular pay.	No.	Area.	No.	Area.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	No.	No.	Mths.		Acres.		Acres.	As.	Rs.	Rs.	Rs.		Acres.		Acres.
Akyab ...	...	3	6	180	1,822	180	1,822	8	911	911*	...	...	...	75	370
Kyaukpyu ...	...	5	7	236†	2,764	231	2,714	8	1,696	3,239†	...	...	...	218	2,457
Sandoway ...	...	3	11	69	797	66	776	8	469	264	...	...	...	39	477
Hanthawaddy ...	...	8	6	20	3,427	20	3,267	8—Re. 1	2,129	2,129	...	...	...	1	192
Toungoo ...	...	5	6	55	10,801	53	10,401	8	4,926	2,572	...	..	...	53	10,401
Thatôn ...	...	4	5	90	7,935	90	7,935	4—8	1,892	680	...	...	...	88	7,617
Amherst ...	1	16	6	78	10,239	63	9,658	2—8	3,672	1,980	364‡	3	631	62	9,658
Tavoy ...	...	3	6	163	...	61	489	8	420	240	...	...	...	41	489
Mergui ...	...	5	7	227	8,884	223	7,940	2—Re. 1-8	8,086	1,869	..	2	5,275	76	1,611
TOTAL FOR 1910-11 ..	1	52	5-11	1,118	46,669	997	45,002	2—Re. 1-8	23,381	12,914	364	6	5,906	611	33,165
TOTAL FOR 1909-10 ...	4	33	6-12	2,064	128,098	1,947	127,315	6—12	39,758	10,702	1,536§	7	5,061	496	12,691

* Excludes Rs. 189-8 paid for Surveys of the previous year.
† Includes payments for previous years' surveys.
‡ Five cases pending survey.
§ Refers to cost of special Patta Inspectors.

STATEMENT No. VII. — *Area under Supplementary*

District.	SUPPLEMENTARY SURVEY IN RURAL AREAS.					
		Total area.				
	No. of *kwins.*	Total area under Supplementary Survey.	Under occupation.	Under cultivation.	Under assessment.	Total assessment (including cess in Lower Burma) on the area in column 6.
1	2	3	4	5	6	7
	No.	Sq. miles.	Acres.	Acres.	Acres.	Rs.
Akyab	1,242	2,078	692,082	598,729	687,773	19,17,652
Kyaukpyu	792	814	177,298	167,410	168,342	2,91,095
Sandoway	291	268	56,831	54,939	55,885	1,07,594
Rangoon Town	...	...	...	...	...	...
Hanthawaddy	1,763	2,661	1,228,235	1,194,168	1,170,964	39,06,648
Tharrawaddy	602	1,264	487,858	444,262	487,858	12,12,002
Pegu	1,423	2,314	867,386	820,276	864,930	22,87,727
Prome	1,025	1,714	362,676	333,503	362,548	5,93,990
Bassein	1,269	2,216	696,670	624,550	695,350	16,73,856
Henzada	849	1,793	569,892	535,087	575,810	14,41,979
Myaungmya	1,064	1,816	644,437	587,533	642,249	21,24,874
Ma-ubin	592	1,641	443,582	420,679	429,474	13,93,715
Pyapôn	839	1,284	625,589	592,876	618,681	20,23,323
Toungoo	765	1,470	415,817	386,981	398,940	8,77,977
Thatôn	1,699	2,391	680,046	635,405	675,549	13,34,842
Amherst †	1,210	1,748	499,894	448,737	498,026	9,90,524
Tavoy	517	465	122,318	115,316	126,191	3,14,958
Mergui	642	588	91,854	86,364	89,296	2,59,930
Thayetmyo	377	575	99,429	62,842	59,889	1,05,629
Pakôkku	913	1,436	367,839	226,317	44,681	1,32,327
Minbu	846	1,418	439,697	210,015	199,205	5,32,563
Magwe	2,121	2,717	944,310	385,077	330,958	3,90,253
Mandalay Town	...	...	...	...	...	...
Mandalay	744	700	254,230	174,172	169,940	8,21,769
Katha	1,953	1,078	203,719	184,154	181,955	2,28,781
Shwebo	3,643	3,680	994,534	565,744	525,733	10,87,291
Sagaing	1,171	1,823	738,473	468,676	412,759	4,63,169
Lower Chindwin	1,606	2,604	769,457	482,215	419,609	3,08,529
Upper Chindwin	188	106	40,415	32,230	31,769	38,169
Kyaukse	642	567	254,937	165,703	143,308	6,48,929
Meiktila	1,988	1,616	653,215	384,888	361,718	5,56,764
Yamêthin	1,886	1,651	494,058	332,337	281,120	5,17,418
Myingyan	2,832	2,922	1,189,423	595,255	526,715	4,31,888
TOTAL FOR 1910-11 ...	37,494	49,418	16,106,201	12,315,620	12,221,125	2,90,19,075
TOTAL FOR 1909-10 ...	36,066*	48,212*	15,693,002*	12,339,662*	12,416,614*	2,87,49,232*

* Revised figures.

† Three *Taikthugyis* act as Surveyors and do their own

Survey for the year 1910-11 (Paragraphs 8 and 9).

Supplementary Survey in Towns.						Total area under Supplementary Survey.	Total area occupied.	Total assessment.	Remarks.
No. of Towns.	No. of Blocks.	*Total area.* Gross area.	Occupied area in Town Register I.	Area under assessment.	Total Land Revenue and Rent.				
8	9	10	11	12	13	14	15	16	17
No.	No.	Sq. mls.	Acres.	Acres.	Rs.	Sq. mls.	Acres.	Rs.	
1	9	5	1,899	1,706	5,448	2,083	693,981	19,23,100	
1	6	1	464	464	2,657	815	177,762	2,93,752	
...	...	...	...	...	...	268	56,831	1,07,594	
1	47	30	13,184	8,571	4,91,326	30	13,184	4,91,326	
16	58	12	5,324	5,161	43,803	2,673	1,233,559	39,50,451	
12	62	16	6,900	6,900	22,026	1,280	494,758	12,34,028	
19	118	13	4,835	4,536	52,771	2,327	872,221	23,40,498	
7	35	9	4,493	3,574	30,193	1,723	367,169	6,24,093	
6	95	19	6,593	6,593	25,687	2,235	703,263	16,99,543	
10	98	16	6,439	5,924	18,434	1,809	576,331	14,60,413	
6	62	4	1,547	1,196	6,825	1,820	645,984	21,31,699	
5	61	7	2,622	2,622	13,897	1,648	446,204	14,07,612	
5	234	6	2,777	2,123	15,821	1,290	628,366	20,39,144	
10	413	13	4,246	3,564	15,444	1,483	420,063	8,93,421	
9	246	13	5,001	3,347	8,776	2,404	685,047	13,43,618	
2	19	4	1,634	1,468	2,620	1,752	501,528	9,93,144	
1	30	4	1,546	1,302	4,091	469	123,864	3,19,049	
2	143	2	853	848	4,290	590	92,707	2,64,220	
2	14	2	733	733	9,776	577	100,162	1,15,405	
1	51	4	2,347	...	...	1,440	370,186	1,32,327	
4	35	3	1,414	775	3,150	1,421	441,111	5,35,713	
3	24	4	1,212	219	3,956	2,721	945,522	3,94,209	
1	901	10	6,597	4,676	15,868	10	6,597	15,868	The Surveyors also compile the Municipal Assessments.
1	19	7	1,371	1,371	3,113	707	255,601	8,24,882	
6	65	2	811	302	5,186	1,080	294,530	2,33,967	
16	44	4	1,005	248	3,430	3,684	995,539	10,90,721	
3	13	3	1,275	672	3,707	1,826	739,748	4,66,876	
2	23	2	837	164	635	2,606	770,294	3,09,164	
...	...	...	...	...	...	106	40,415	38,169	
...	...	...	...	...	...	567	254,937	6,48,929	
4	...	5	1,054	1,054	4,740	1,621	654,269	5,64,504	
...	...	...	...	...	...	1,651	494,058	5,17,418	
2	57	5	446	...	...	2,927	1,189,869	4,31,888	
158	2,982	225	89,459	70,113	8,17,670	49,643	16,195,660	2,98,36,745	
137*	2,730*	208	86,739	59,323	6,84,600*	48,420*	15,779,741*	2,94,33,832*	

Supplementary Survey Work.

STATEMENT No. VIII.—*Cost of Supplementary*

District.	Superintendence and Inspection.				Supplementary Survey				
					Number of Survey Charges.				
	Pay and Travelling Allowance of Superintendent of Land Records and Assistant Superintendent of Land Records, if any.	Number of Inspectors and District Surveyors.	Pay and Travelling Allowance of Subordinate Inspecting and Clerical establishment.	Total cost (column 2 and column 4).	Revenue Surveyor's charges, Rural.	Revenue Surveyor's charges, Urban.	Revenue Surveyor's charges partly Rural and partly Urban.	Surveyors' charges in *taiks*.	Surveyors' charges partly in *taiks* and partly in Revenue Surveyor's charges.
1	2	3	4	5	6	7	8	9	10
	Rs.		Rs.	Rs.					
Akyab ...	6,276	7	10,931	17,207	83	2	...	4	...
Kyaukpyu ...	2,646	4	7,090	9,736	13	—	...	12	6
Sandoway ..	4,732	3	4,999	9,731	11	—	1	...	2
Rangoon Town ...	7,578	2	5,954	13,532	...	18	...	...	...
Hanthawaddy ...	15,204	11	20,654	35,858	81	2	8	27	...
Tharrawaddy ...	4,436	5	8,349	12,785	38	...	8	10	...
Pegu ...	9,459	10	16,798	26,257	57	2	18	16	...
Prome ...	7,211	5	8,124	15,335	41	3	6	11	...
Bassein ...	6,590	9	14,891	21,481	52	7	...	18	...
Henzada ...	4,651	6	9,550	14,201	38	...	9	22	1
Myaungmya ...	4,787	6	10,676	15,463	49	...	6	10	...
Ma-ubin ...	3,885	5	9,272	13,157	46	...	5	3	...
Pyapôn ...	5,381	7	12,778	18,159	62	...	4	5	...
Toungoo ...	6,749	6†	9,182	15,931	27	2	11	5	...
Thatôn ...	8,041	8	14,166	22,207	73	3	2	3	...
Amherst ...	6,311	5	8,401	14,712	46	...	2	19	2
Tavoy ...	4,090	3	5,425	9,515	15	1	2	3	2
Mergui ...	2,804	3	5,837	8,641	20	...	2	...	...
Thayetmyo ..	5,326	2	4,445	9,771	20†	1	...	4	...
Pakôkku ...	7,047	6	7,448	14,495	41	1	...	...	...
Minbu ...	3,645	5	7,860	11,505	46	...	2	...	...
Magwe ...	5,494	8	11,334	16,828	73	...	3	...	...
Mandalay Town ...	4,131	2	5,706	9,837	...	13	...	...	...
Mandalay ...	12,321	5	8,787	20,108	47	3	...	...	...
Katha ...	4,832	5	8,656	13,488	38	1	...	..	...
Shwebo ...	10,306	12	16,885	27,191	102	...	16	...	...
Sagaing ...	5,172	8	12,539	17,711	66	1	3	...	...
Lower Chindwin ...	7,050	6	9,050	16,100	55	...	2	...	...
Upper Chindwin ...	3,018	2†	5,167	8,185	8	...	...	...	...
Kyaukse ...	5,605	6	9,541	15,146	45	...	...	...	...
Meiktila ...	3,746	5	7,605	11,351	1	...	...	...	...
Yamèthin ...	5,253	6	9,650	14,903	60	1	...	...	...
Myingyan ...	6,105	9†	11,666	17,771	74	...	1	...	...
TOTAL FOR 1910-11...	1,98,882	192	3,19,416	5,18,298	1,428	61	111	163	13
TOTAL FOR 1909-10...	1,99,129	183	3,03,919	5,03,048	1,428*	54*	83*	168*	23*

* Revised figures. † Includes one District Surveyor.

Survey in 1910-11 (Paragraph 10).

FIELD STAFF.					AVERAGE COST					Remarks.
							Of Supplementary Survey.			
Surveyors without local charges.	Number of periodical Surveyors.	Total cost of field supplementary survey staff.	Contingencies and supplies and services.	Total cost of supplementary survey.	Of supervision and inspection per square mile.	Of supplementary survey field staff per square mile.	Per square mile.	Per occupied acre.	Per cent. of total assessment.	
11	12	13	14	15	16	17	18	19	20	21
No.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Annas.	Rs.	
...	...	46,116	3,367	66,690	8·26	22·14	32·02	1·538	3·47	
...	1	11,890	1,064	22,690	11·95	14·59	27·84	2·042	7·72	
...	1	5,660	1,234	16,625	36·31	21·12	62·03	4·681	15·45	
...	...	9,543	475	23,550	451·07	318·10	785·00	28·580	4·79	
...	...	63,793	6,955	1,06,606	13·41	23·87	39·88	1·383	2·70	
...	...	29,426	1,339	43,550	9·99	22·99	34·02	1·408	3·53	
...	...	45,136	2,979	74,372	11·28	19·40	31·96	1·364	3·18	
...	...	31,563	1,291	48,194	8·90	18·32	27·97	2·100	7·72	
...	...	41,763	971	64,215	9·61	18·69	28·73	1·461	3·78	
...	...	38,121	1,612	53,934	7·85	21·07	29·81	1·497	3·69	
...	...	34,499	1,384	51,346	8·50	18·95	28·21	1·272	2·41	
...	...	29,039	1,512	43,708	7·98	17·62	26·52	1·567	3·11	
...	...	38,238	4,052	60,449	14·08	29·64	46·86	1·539	2·96	
...	...	23,393	1,142	49,466	10·74	15·77	27·29	1·541	4·53	
...	2	42,700	2,764	67,671	9·24	17·76	28·15	1·581	5·03	
...	...	28,564	5,019	48,295	8·40	16·30	27·57	1·541	4·86	
...	...	11,104	1,050	21,669	20·29	23·68	46·20	2·799	6·79	
...	...	11,202	1,050	20,893	14·65	18·99	35·41	3·606	7·91	
...	...	10,452	1,367	21,590	16·93	18·11	37·42	3·449	18·71	
...	30	21,665	3,167	39,327	10·07	15·05	27·31	1·700	29·72	
...	4	20,404	1,511	33,420	8·10	14·36	23·52	1·212	6·24	
...	5	29,286	2,071	48,185	6·18	10·76	17·71	0·815	12·22	
2	...	9,814	1,205	20,856	983·70	981·40	2,085·60	50·583	131·43	The figures do not include the Municipal Assessments.
3	4	25,932	1,393	47,433	28·44	36·68	67·09	2·969	5·75	
...	...	19,287	2,016	34,785	12·49	17·86	32·21	2·721	14·87	
...	16	50,863	2,497	80,551	7·38	13·81	21·86	1·295	7·39	
...	8	30,703	1,617	50,031	9·70	16·81	27·40	1·082	10·72	
...	2	24,186	2,172	42,458	6·18	9·28	16·29	0·882	13·73	
...	...	4,632	1,818	14,635	77·22	43·70	138·07	5·794	38·34	
3	...	20,687	1,311	37,044	26·71	36·48	65·33	2·345	5·71	
...	...	22,661	1,588	35,680	7·08	13·68	21·96	0·871	6·31	
...	...	26,841	2,015	43,759	9·03	16·26	26·50	1·417	8·46	
...	10	30,118	1,543	49,432	6·07	10·29	16·89	0·665	11·45	
8	83	8,89,286	66,445	14,74,029	10·41	17·91	29·69	1·456	4·94	
6	69	8,55,682	54,530	14,13,260	10·39*	17·67*	29·19*	1·433*	4·80	

† Excludes 15 Surveyors employed in unsettled tracts where Supplementary Survey has not yet begun.

STATEMENT No. IX.—*Supplementary Survey*

District.	Number of *kwins* in the District under Supplementary Survey.	Number of *kwins* under Supplementary Survey in which the Field Work was tested												
		By District Officers.							By the Land Records Staff.				Total number of *kwins* inspected by all Inspecting Officers.
			Subdivisional Officers.			Township Officers.				Inspectors			
		Deputy Commissioner.	Number of Officers.	Number of *kwins* checked.	Average.	Number of Officers.	Number of *kwins* checked.	Average.	Superintendent.	Number of Inspectors.	Number of *kwins* checked.	Average.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Akyab	1,242	6	4	20	5	9	102	11	101	7	718	103	784
Kyaukpyu	792	3	1	7	7	5	35	7	85	4	332	83	462
Sandoway	291	1	...	...	...	3	24	8	75	3	220	73	221
Rangoon Town ...	...	...	...	...	...	..	...	...	...	..	...	...	...
Hanthawaddy ...	1,780	...	3	8	3	8	23	3	85	10	957	96	1,073
Tharrawaddy ...	602	4	2	50	25	6	39	7	43	5	487	97	530
Pegu	1,423	32	3	42	14	6	40	7	68	9	862	96	1,044
Prome	1,026	...	3	30	10	7	42	6	132	5	736	147	754
Bassein	1,269	30	2	12	6	6	24	4	67	8	670	84	689
Henzada	849	5	2	20	10	6	19	3	101	6	494	82	639
Myaungmya ...	1,068	10	2	16	8	4	58	15	80	6	624	104	657
Ma-ubin	592	42	2	75	38	4	55	14	93	5	357	71	622
Pyapôn	839	2	2	3	2	4	15	4	79	7	521	74	620
Toungoo	765	1	3	15	5	7	17	2	56	5	342	68	350
Thatôn	1,072	...	3	27	9	6	82	14	69	8	858	107	1,036
Amherst	1,223	3	3	8	3	8	28	4	88	5	431	86	506
Tavoy	485	2	...	...	...	4	17	4	108	3	324	108	362
Mergui	638	...	2	20	10	4	24	6	76	3	230	77	330
Thayetmyo	711	3	2	9	5	6	45	8	122	4	393	98	572
Pakôkku	1,895	14	2	13	7	5	20	4	128(*a*)	9	1,055	117	1,210
Minbu	846	8	2	23	12	5	25	5	65	5	697	139	818
Magwe	212	...	2	7	4	6	51	9	120	8	1,098	137	963
Mandalay Town ...	14	...	...	...	...	...	...	...	10	1	7	7	7
Mandalay	756	5	2	28	14	4	25	6	115(*b*)	5	713	143	677
Katha	1,953	3	3	56	19	7	42	6	126	5	607	121	834
Shwebo	3,649	4	3	20	7	9	125	14	178(*c*)	12	1,460	122	1,606
Sagaing	1,179	2	2	14	7	6	149	25	143	8	1,005	126	868
Lower Chindwin ...	1,606	...	2	40	20	5	58	12	124	7	574	82	615
Upper Chindwin ...	188	1	1	11	11	1	7	7	96	1	113	113	148
Kyauksè	642	9	2	14	7	3	6	2	76	6	742	124	467
Meiktila	1,988	9	2	46	23	4	216	54	185	5	1,191	238	1,033
Yamèthin	1,886	...	2	3	2	5	30	6	93(*d*)	6	521	87	632
Myingyan	2,832	6	2	98	49	6	182	30	131	8	1,012	133	1,342
TOTAL FOR 1911-12 ...	36,314	205	66	735	11	169	1,625	10	3,118	189	20,369	108	22,651
TOTAL FOR 1910-11 ..	37,495	222	66	586	9	165	1,305	8	2,735	187	17,767	95	20,014*

* Revised

(*a*) Includes 10 *kwins* inspected
(*b*) Excludes 19 *kwins* inspected
(*c*) Includes 57 *kwins* inspected
(*d*) Includes 30 *kwins* inspected

Inspections, for the year 1911-12 (Paragraph 12).

Abstract of errors discovered by the Land Records Staff.															
Errors affecting assessments.							Statistical errors.					Number of holdings.			
Total number of errors in			Results of correction of errors.				Total number of errors in								
			Increase.		Decrease.										Remarks.
Area of extensions.	Crop marking.	Assessment.	Area.	Revenue.	Area.	Revenue.	Holding marking.	Crop marking.	Survey of interior details.	Record.	Total number of Statistical errors.	In the *kwins* inspected.	Inspected in these *kwins*.	Found correct.	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			Acres.	Rs.	Acres.	Rs.									
276	5,411	17	183	452	109	254	1,083	548	10,924	1,656	14,213	725,786	26,295	18,288	
54	529	..	37	47	...	...	321	400	1,063	822	1,605	52,874	11,308	9,077	
319	640	7	23	34	1	1	83	251	766	373	1,156	18,263	4,763	3,229	
...	...	...	...	..	...	...	4	...	80	..	84	...	...	...	
85	1,604	25	365	786	36	119	974	67	3,576	675	6,492	42,888	18,159	14,831	
29	461	4	71	157	38	107	282	16	2,118	591	2,636	63,415	12,444	10,022	
292	1,299	3	163	358	33	70	201	81	2,602	192	3,076	33,886	12,039	8,615	
418	1,036	3	74	121	5	7	523	44	1,172	639	2,678	134,160	30,872	27,930	
706	1,625	34	270	1,233	55	185	212	10	4,935	1,165	6,320	28,405	12,213	7,872	
77	792	12	38	318	36	91	612	438	3,201	538	4,789	70,893	14,614	12,667	
84	161	...	492	1,440	68	255	301	2,129	7,273	582	10,285	31,322	12,449	7,369	
302	705	10	269	782	39	108	577	966	4,032	637	6,212	21,934	11,166	6,919	
278	867	28	245	810	35	97	900	51	2,862	741	4,519	17,913	6,553	4,009	
171	406	8	71	139	36	77	454	743	2,113	467	3,777	27,527	9,780	6,769	
189	152	189	92	163	13	30	514	723	10,425	300	11,962	46,447	15,972	10,646	
95	2,618	2	188	264	4	8	133	274	3,105	528	4,040	31,840	12,708	9,536	
136	136	136	91	175	6	7	235	140	2,639	537	3,546	41,687	10,758	8,426	
...	11	5	115	258	16	43	121	240	2,697	143	3,191	11,175	5,903	4,663	
880	1,134	97	1,737	3,576	889	1,027	215	304	558	964	2,041	56,224	17,338	12,678	
63	656	47	70	121	113	167	613	2,117	274	1,784	4,798	161,057	35,325	30,188	
54	632	321	108	827	208	438	24	190	216	322	956	97,245	33,981	27,366	
606	529	69	130	323	149	159	354	253	305	527	1,439	130,375	137,863	35,060	
..	...	...	..	...	1	3	1	1	37	21	60	3,127	346	287	
36	567	280	165	740	135	536	142	88	530	522	1,282	63,007	18,634	16,902	
438	3,724	307	84	72	400	273	842	464	2,782	261	4,349	22,226	9,938	6,256	
124	3,425	324	2,901	10,217	1,281	2,542	489	1,605	706	1,785	4,585	172,637	41,850	35,644	
230	2,116	...	1,586	1,519	1,546	1,341	851	951	738	2,911	5,483	190,830	39,569	32,700	
114	875	311	1,157	531	508	423	135	469	247	1,276	2,101	341,364	36,359	33,184	
16	137	2	4	17	4	19	21	114	243	247	625	15,557	4,184	3,627	
31	837	38	150	626	229	479	161	142	861	721	1,885	54,404	20,299	19,303	
27	5,276	5	3,957	10,653	1,326	1,681	192	503	579	1,111	5,090	169,208	46,497	37,859	
488	2,680	63	907	2,115	592	858	533	938	581	1,296	3,175	50,316	11,555	7,786	
361	1,711	1,674	1,287	759	605	437	1,458	1,107	1,037	2,176	5,778	122,225	36,529	31,220	
6,979	42,752	4,021	16,930	39,623	8,516	11,842	13,591	16,457	75,677	26,512	134,228	3,041,227	718,253	500,928	
7,504*	32,343*	3,397	13,813*	19,177*	1,555*	8,244*	10,967*	12,428*	77,118*	18,428*	118,590*	1,806,247*	528,426*	438,421*	

figures.
by Assistant Superintendent.
by Assistant Superintendent.
by Assistant Superintendent.
by Assistant Superintendent.

STATEMENT NO. X.—*Supplementary Surveys by the Local Staff in* 1910-1911 (Paragraph 13.)

District.	Survey of Grants and Leases.						Resurveys and Extension Surveys by the Local Staff.					Holding Surveys of Impermanent Island Cultivation in unsurveyed tracts.				Remarks.
	Number.			Area.			Number of kwins.			Area Surveyed.		Number of Holdings.			Area Surveyed.	
	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed wholly or in part.	Checked by Inspector.	Checked by Superintendent.	Gross area.	Cultivated area.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Area Surveyed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Acres.						Sq. Mls.	Acres.				Acres.	
Akyab ...	...	...	...	...	...	...	11	8	...	3	1,400	2	7	...	181	
Kyaukpyu ...	...	...	...	...	...	...	103	87	...	...	2,618	...	...	...	...	
Sandoway ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rangoon Town	554	62	15	143	50	20	2	1	2	...	...	...	...	...	...	
Hanthawaddy	...	...	...	...	...	...	55	52	...	59	28,507	...	...	...	...	
Tharrawaddy ...	5	...	...	70	...	...	2	...	...	6	4,064	2,596	681	...	6,622	
Pegu ...	1	1	...	98	98	...	22	17	...	16	9,695	497	188	...	1,079	
Prome ...	...	...	...	...	...	...	24	20	1	47	6,153	196	113	...	275	
Bassein ...	...	...	...	...	...	...	24	24	...	25	5,834	...	...	...	...	
Henzada ...	...	...	...	...	...	...	40	40	13	37	15,000	...	...	...	...	Three large island *kwins* were traversed with the theodolite.
Myaungmya ...	83	84	8	344	187	25	64	33	...	57	20,638	622	...	...	6,350	
Maubin ...	3	...	...	0·146	...	...	98	26	...	20	6,380	...	...	...	...	
Pyapôn ...	124	39	28	6	1	2	...	...	...	...	...	126	...	...	1,900	
Toungoo ...	251	7†	...	6·59†	1·46†	...	60	18	7	17	11,047	108	...	...	215	†Leases in towns.
Thatôn ...	2	2	...	45	45	...	46	44	1	75	18,395	84	93	...	140	
Amherst ...	83	16	8	556	1,453	621	35	23	1	25	7,305	...	...	...	...	
Tavoy ...	31	31	...	142	142	...	33	33	...	4	2,563	122	29	...	136	
Mergui ...	1	...	...	1,100	...	...	5	...	...	3	440	...	...	...	...	
Thayetmyo ...	23	...	...	337	...	...	...	...	...	...	...	...	...	...	...	
Pakôkku ...	85	...	20	40	...	10	223	133	64	16	9,707	7,401	2,638	937	7,394	*Kwin* No. 426B., Wetchi-in, was entirely traversed and cadastrally surveyed area 1,56, acres.
Minbu ...	...	...	...	...	...	...	...	...	...	...	...	5,613	951	...	13,719	
Magwe ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	
Mandalay Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mandalay ...	24	10	1	283	204	190	220	79	20	38	13,055	...	...	...	..	
Katha ...	192	8	...	145	...	...	...	52	...	9	2,026	911	...	...	122	
Shwebo ...	13	...	...	2	...	...	200	60	13	52	29,800	801	120	...	1,096	
Sagaing ...	856	195	...	618	51	...	2	2	...	8	2,988	6,475	1,245	...	25,080	
Lower Chindwin	...	...	...	...	...	...	...	...	...	...	...	1,236	497	139	6,394	
Upper Chindwin	...	..	...	...	...	...	...	...	...	...	...	1,434	137	294	1,434	
Kyaukse ...	1	1	...	22	...	...	11	5	3	9	4,533	...	...	...	...	
Meiktila ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	
Yamèthin ...	11	11	...	708	708	...	13	10	8	14	8,573	...	...	...	...	
Myingyan ...	...	...	...	..	...	...	...	...	...	...	...	8,567	2,320	324	20,585	
Total for 1910-11	2,017	347	70	4,068·736	2,878·46	893	1,458	732	193	551	314,658	37,190	10,383	1,931	92,845	
Total for 1909-10	2,431	700	238	25,772	6,168	1,431	2,330*	1,122*	233*	868*	372,736*	50,003*	14,707	3,026	110,686*	

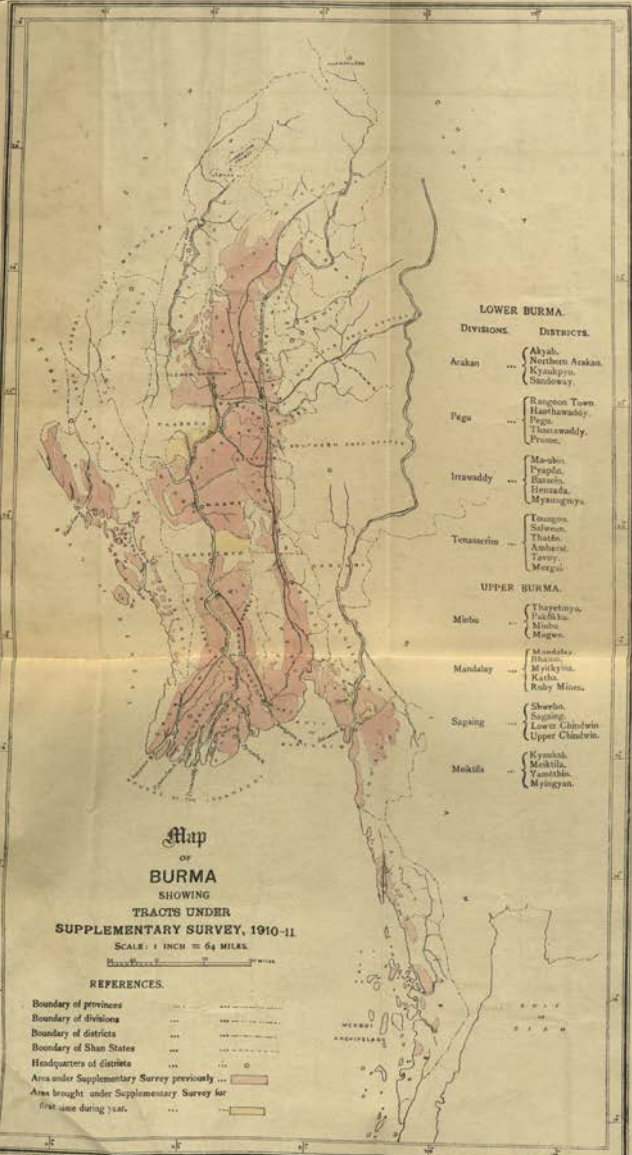
* Revised figures.

STATEMENT XI.—*Statistics relating to Government Survey Schools, for the year* 1910-11 (Paragraph 20).

District.	Daily average number of pupils on the rolls.	Number of the days the school was in session.	Average number of days each pupil received tuition.	Number of pupils on the rolls on the 31st March.			Total income for the year.	Total expenditure for the year.					Number of pupils presented at the last examination in						Remarks.
				Pupils paying fees.	Free pupils.	Total.		On Establishment.	On Scholarship.	On prizes and bonuses.	On other contingencies.	Total.	*Surveying.*		*Arithmetic.*		*Revenue Law.*		
													Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.							
Akyab ...	14	249	215	17	...	17	201	1,104	409	99	215	1,987	17	11	16	14	14	1	
Kyaukpyu ...	14	259	221	10	2	12	183	1,140	736	50	242	2,168	12	5	12	6	12	...	
Insein ...	12	271	247	13	...	12	304	1,235	548	67	105	1,975	12	9	11	8	12	9	
Pegu ...	23	266	222	15	7	22	289	1,151	960	81	50	2,243	20	11	20	6	16	4	
Prome ...	10	285	256	2	6	8	110	1,104	679	59	321	2,163	8	7	8	7	6	3	
Bassein ...	11	260	184	8	3	11	228	1,128	687	85	364	2,464	11	9	11	9	10	7	
Henzada ...	17	255	219	13	4	17	328	1,104	624	116	16	1,760	17	13	17	13	15	9	
Ma-ubin ...	9	267	257	8	2	10	223	1,128	804	98	283	2,313	10	8	9	9	6	...	
Tounguo ...	13	253	253	13	...	13	445	1,137	471	38	40	1,726	11	6	11	5	10	6	
Moulmein ...	23	248	188	21	2	23	525	1,104	969	186	517	2,776	23	19	23	22	21	15	
Mergui ...	11	257	209	7	2	9	193	934	680	45	269	1,918	6	4	6	5	6	5	
Pakôkku ...	18	257	236	2	18	20	32	920	889	165	111	2,085	20	16	20	19	20	6	
Minbu ...	33	259	243	9	27	36	149	1,104	1,033	254	21	2,412	36	28	36	28	36	15	
Mandalay ...	10	257	136	8	...	8	136	976	615	114	93	1,803	8	8	8	8	7	7	
Katha ...	15	255	176	3	8	11	128	810	833	41	61	1,725	11	4	8	8	8	1	
Sagaing ...	28	254	188	9	23	32	180	1,104	999	215	105	2,423	30	25	26	24	25	17	
Lower Chindwin ...	23	249	223	11	12	23	146	1,476	590	32	188	2,166	19	4	20	7	22	3	
Meiktila ...	27	269	218	15	5	20	251	1,227	1,077	99	35	2,438	20	9	20	14	20	6	
Yamèthin ...	27	276	238	11	6	17	142	765	869	50	38	1,722	14	7	12	5	10	...	
Total for 1910-11 ..	336	260	217	194	127	321	4,308	20,752	14,592	1,904	3,129	40,377	305	203	295	213	278	116	
Total for 1909-10 ...	379	263	215	250	127	377	5,106	20,740	14,388	1,971*	3,246*	40,345*	350	250	324	148	324	211	

* Revised figures.

G. B. C. P. O.—No. 117, C. S. L. R., 1(*a*), 20-10-1911—301—Geo. B.


LOWER BURMA.
DIVISIONS. DISTRICTS.
Arakan ... Akyab. Northern Arakan. Kyaukpyu. Sandoway.
Pegu ... Rangoon Town. Hanthawaddy. Pegu. Thatawaddy. Prome.
Irrawaddy ... Maubin. Pyapôn. Bassein. Henzada. Myaungmya.
Tenasserim ... Toungoo. Salween. Thatôn. Amherst. Tavoy. Mergui.
UPPER BURMA.
Minbu ... Thayetmyo. Pakôkku. Minbu. Magwe.
Mandalay ... Mandalay. Bhamo. Myitkyina. Katha. Ruby Mines.
Sagaing ... Shwebo. Sagaing. Lower Chindwin. Upper Chindwin.
Meiktila ... Kyaukse. Meiktila. Yamethin. Myingyan.
Map
OF
BURMA
SHOWING
TRACTS UNDER
SUPPLEMENTARY SURVEY, 1910-11.
SCALE: 1 INCH = 64 MILES.
REFERENCES.
Boundary of provinces
Boundary of divisions
Boundary of districts
Boundary of Shan States
Headquarters of districts
Area under Supplementary Survey previously
Area brought under Supplementary Survey for first time during year.
SIAM

LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDING THE 30th JUNE 1912

RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1912

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[The maximum limit of the text of the Report is 10 pages.]

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LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDING THE 30th JUNE 1912.

CHAPTER I.

INTRODUCTORY.

1. *Work of the year.*—The area under Supplementary Survey was increased by the addition of 873 square miles. The largest increases were in Pakôkku and Thayetmyo, while in Myingyan and Ma-ubin there were small decreases due to the formation of Forest Reserves. Extension surveys were carried out in Bassein where some 37 square miles with an occupied area of about 17,000 acres were surveyed in advance of Settlement. The members of the local staff revised the survey of 642 square miles containing 239,208 acres under cultivation. Special surveyors did similar work on 331 square miles with 168,340 acres of cultivation. The Gazetted staff of the Department was up to its full strength but the strain of working short-handed continued as several Junior Superintendents were under survey training. The proposals submitted in 1910 for re-organization of the subordinate Land Records staff were not accepted, except in respect of chainmen. In the Meiktila and Yamèthin Districts serious irregularities leading to under-assessments were detected in crop marking. Attention has been drawn to important defects in Land Records work especially in the dry zone. It is admitted that the Department is attempting too much and proposals for simplifying and reducing assessment and statistical work are under consideration.

The gross area in which supplementary survey was maintained in the year of report was 50,450 square miles containing 16,715,236 acres under occupation. The total cost of the Department was about 16½ lakhs equivalent to 5½ per cent. of the total revenue assessed.

CHAPTER II.

SPECIAL DEMARCATION AND SURVEYS.

2. *Demarcation preliminary to Survey.*—Demarcation in advance of Cadastral Survey by Special staff was undertaken in the Bassein District alone. A special Demarcation Officer was engaged on the work. A small portion of the work was executed by the Surveyors of the Survey staff. The work was examined by the Assistant Director. The demarcation maps were quite good. Statement I.

3. *Revision Surveys by Special Staff.*—Owing to lack of funds no new Revision Surveys by special staff were organized in the year. As described in paragraph 14, under the head of Supplementary Survey, revision surveys by unattached surveyors were carried out under the supervision of the local Superintendents of Land Records in eight districts of Lower Burma. The recess work of the revision surveys completed in the Kyaukpyu and Mergui Districts last year, was however finished. Statement II.

4. *Extension Surveys by Special Staff.*—Special surveys in Burma under a Special Superintendent were re-started during the year after an interval of two years. Maung San Shwe, Superintendent of Land Records, was placed in charge and took up his duties in August 1911. Owing to financial and other reasons the surveys to be executed were confined to two districts. Extension surveys were made of the demarcated area mentioned in paragraph 2. The tract was some 75 miles in length, on the west coast between the sea and the Arakan Yomas. Cultivation lay in patches between hills, and much jungle-cutting was necessary. Though the period for field work was limited, the surveys were completed in due time. The work has been well connected with the Great Trigonometrical and other Geographical positions, and the surveys have been throughout *partalled.* The Assistant Director inspected the surveys and found them to be good. The Statement III.

cost-rate is comparatively high, but this was to be expected under the peculiar conditions of the area. The map and area work is in hand.

4A. *Miscellaneous Surveys by Special Staffs.*—In the Hanthawaddy District a Prismatic Compass survey of large accretions on the east of the Kadonbaw and Alangon Forest Reserves bordering on the Gulf of Martaban was undertaken by a small staff. The object was to ascertain the extent of the accretions with a view to their reservation if found suitable, as forest, fuel and grazing reserves, and to then throw open to cultivation the whole or part of the existing Kadonbaw reserve. The area surveyed was 71 square miles, and the cost amounted to Rs. 533. In the Pegu District outside the supplementary survey area a block of some four square miles was surveyed by a special staff at the cost of the Pegu Municipality in connection with a water-works scheme.

Statement IV.

5. *Town Surveys.*—Little was done on Town surveys owing to want of funds. In Rangoon Town the areas excluded from Cantonments were demarcated by a Special Demarcation Officer and staff. The Demarcation Officer also marked off the limits of some original grants in connection with the determination of tenures. The special revision surveys by a special permanent staff which were commenced last year were continued and good progress has been made. The *ex*-Cantonment area was also surveyed. The Superintendent kept a close watch on the operations and ran numerous *partals*. Both the recess work of the previous year's survey and the current year's field work were inspected by the Assistant Director and the quality of the survey was declared to be particularly good. In the Hanthawaddy District the towns of Syriam and Tantabin were surveyed under the local Superintendent of Land Records. The demarcation of Tantabin was done by the Township Officer; that of Syriam was completed the year before. The town of Syriam was surveyed on the 64-inch scale with 5-foot measured contours; all referred to an adjoining Great Trigonometrical height. The Assistant Director examined the survey which was found to be of a professional character. A small town was also demarcated and surveyed at no additional cost. In Moulmein Town the Town Lands Rolls were taken up and finished under a Special Revenue Officer. The survey of Mergui Town was done under the supervision of the Special Survey Superintendent. The demarcation had been done the previous year, but it was found necessary to go over it again. Owing to the late receipt of sanction the 5-foot contours of the hills could not be entirely completed. The Assistant Director's examination of the field work showed it to have been well done. The demarcation and survey of three more towns in the Katha District were undertaken and completed. The demarcation was done by a special Demarcation Officer. The work was inspected by the Assistant Director and found in order. The maps are nearly ready for printing. The re-demarcation of four towns in Minbu was taken in hand by a Special Demarcation Officer, but little progress was made for want of proper supervision. The junior Land Records Officers under training at Yamèthin completed a portion of the large scale survey of that town where an area of 248 acres was traversed and mapped in detail. The demarcation was revised in advance of the survey. The recess work of all the Town Surveys executed in the open season is in progress.

Statement V.

6. *Fishery Surveys.*—Fishery Surveys were restricted to the Tharrawaddy District. The original demarcation and survey of the fisheries had been done sixteen years before. The maps produced were excellent, but numerous changes in the channels had occurred and the subdivision of most of the fisheries was considered desirable. A new survey was thus necessary. An *Inkunwun* was appointed to attend to demarcation and subdivision and to specify the fisheries requiring survey in whole or part. With but few exceptions, all were found to require fresh survey. The demarcation was fair and the rough demarcation maps furnished were useful to the surveyors. The fisheries were mostly outside the supplementary survey area in the vicinity of the Myitmaka and Irrawaddy rivers. The survey was executed by a special staff, working under the direction of the local Superintendent of Land Records. It was done by Prismatic Compass, and the maps plotted on the 4″ scale. The undertaking proved heavier than originally anticipated and an extension of time for the completion of the work had to be

obtained. The staff suffered from malaria and this retarded progress. The Assistant Director inspected the field work on two occasions, and found that it was on the whole of good quality. In the Toungoo District an *Inkunwun*, with a small staff of Surveyors, was appointed to report on and demarcate the limits of the fisheries of the district. This work was duly completed in the open season.

7. *Patta Surveys by Special Staff.*—The issue of *pattas* for ordinary cultivation is practically restricted to the Arakan and Tenasserim Divisions. Leases for special crops, such as rubber, cotton and castor oil, are so far confined to the Tenasserim Division and for rubber only to two districts of the Pegu Division. Kyaukpyu reports a further drop in *patta* applications due to most of the available land fit for cultivation having been taken up. Besides these *pattas* about 1,000 acres of new land were surveyed in 5-acre blocks in the Myebôn Township by a small extra staff. In Hanthawaddy six large rubber leases were surveyed and issued, and in Pegu one lease for rubber and castor cultivation was also surveyed. In Thatôn an extensive lease for rubber was surveyed by an Inspector without fee; another large one was not surveyed owing to the applicant's failure to demarcate the land. Accretion surveys, of 10-acre plots, of some 5,000 acres of land were also done by a special staff remunerated by fees. In Amherst applications for the cultivation of rubber continue to be received. In Tavoy the ordinary *pattas* are for garden cultivation, while applications for rubber lands are reported to have decreased though mining leases are still numerous. The leases and grants in Mergui are mostly for rubber, but some are for gardens and mining allotments. In the Pakôkku District the demarcation and survey of areas given under prospecting licenses or mining leases to various Companies for mineral oil winning, were done by special surveyors who were paid out of fees deposited under the Burma Mining Rules. In the Minbu District the demarcation and survey by a regular staff of symmetrical plots for the issue of leases in the available waste areas of the Môn Canal tract which was stopped by the Financial Commissioner last year was not continued. Instead of this, a special staff of one Inspector and eight surveyors laid out plots of varying size aggregating 2,000 acres. The surveyors of the Irrigation Department were to have taken part in this, but owing to a mistake they did petty revision survey work only. Details of the *patta* work are omitted from Statement VI. In all districts *patta* surveys were ordinarily paid for as piece-work. The fees levied were mostly at the rate of Annas 8 per acre, though in special cases lower or higher rates were demanded. Statement VI.

CHAPTER III.

SUPPLEMENTARY SURVEY WORK.

8. *Rural area under Supplementary Survey.*—During the year 901 square miles in the Thayetmyo and Pakôkku Districts were brought under supplementary survey, so that the gross area over which the Department annually maintains its maps and records now slightly exceeds 50,000 square miles. Corresponding with this wider area and as the result of extensions ranging from three to ten thousand acres in most districts the area under permanent occupation and the cultivated area expanded approximately three and two per cent. to 16,624,922 and 12,570,736 acres respectively. Yet despite this growth the area under assessment fell by 7,005 acres to 12,214,120 acres in consequence of the crop destruction wrought by floods in Lower Burma and by insufficient rainfall in the dry zone. The total assessment, however, rose over a lakh and a half and amounted to Rs. 2,91,79,198. Falls of over two lakhs in Meiktila and of Rs. 80,000 in Myingyan were more than offset by the increases of nearly three lakhs in Pakôkku and of Rs. 86,000 in Thayetmyo; in Pakôkku on the introduction of the settlement rates, and in Thayetmyo as a consequence of the Survey of India maps being brought into use in the north of the district. The new settlement rates in part of Thatôn and in the Lower Chindwin also call for notice; but for them there would have been a large fall in the revenue of these districts in place of the small actual rise reported. Statement VII.

9. *Supplementary Survey in Towns.*—Operations were extended to two more towns in Hanthawaddy during the year and there are now 161 towns in all under Statement VII.

supplementary survey. Owing to small building extensions in almost every town there was an increase of 2,848 acres in the area under occupation which now amounts to 90,314 acres. Corresponding with this and as the result of more squatters taking out leases the assessed area expanded by 1,961 acres to 72,074 acres. The assessment, as in the preceding year, rose over a lakh and amounted to Rs. 9,22,450 which sum does not include municipal taxes. Over half the increase was contributed by Rangoon Town where leases which fell in were renewed at enhanced rates. In Hanthawaddy also and in Tharrawaddy there were substantial rises.

Statement VIII.

10. *Cost of the Supplementary Survey Staff.*—Six Inspectors more than in 1910-11 and thirty-four surveyors were entertained during the year to cope with the greater areas in Thayetmyo and Pakôkku and to give relief to the staff in the Lower Chindwin where the settlement has entailed increased work. This, however, does not explain fully the rise in cost per occupied acre from Rs. 1·453 to Rs. 1·495. Account must be taken of the additions sanctioned in the preceding year to the staffs in Pegu and in Rangoon Town, where the full effects of increases in expenditure of Rs. 8,000 and Rs. 16,000, respectively are now for the first time disclosed in the returns. The percentage of cost as compared with the total assessment rose from 4·92 to 5·19; the coronation bonus, extended protection of permanent survey marks in towns, increased expenses in the binding of records and above all the check to the expansion of the revenue caused by the bad season constitute a full explanation. It has to be observed that much work such as the survey of oil-fields, the preparation of wages returns and the record of prices-current, which, but for the Department would involve Government in considerable expense, is performed without any acknowledgment in the shape of a book-keeping credit.

11. *The Preparation and Submission of Assessment Rolls.*—In Lower Burma the assessment rolls were submitted with substantial punctuality in the year of report. The same may be said of most Upper Burma Districts; only in the Môn Canal area of the Minbu District, in the Lower Chindwin and in Kyauksè were the delays serious. In Minbu late submission of the *kaukkyi* rolls was inevitable as the rates of assessment were not finally determined till the end of February. In the Lower Chindwin the introduction of the settlement presented various difficulties, but though the staff was duplicated for two months, the rolls were late. In Kyauksè the delay is ascribed to the new forms which had not been brought into use in the previous year, and to the preparation of a settlement forecast which threw much unusual and intricate work on the staff. So far as the reports disclose, in no district did the surveyors this year hire copyists to assist them in the preparation of the rolls. In the Lower Chindwin duplicate rolls were not prepared and the question whether a duplicate copy is necessary is now under the consideration of the Financial Commissioner.

Statement IX.

12. *Inspection of Supplementry Survey field work.*—The Commissioner of the Meiktila Division in commenting on a district report notes that the number of inspections by Subdivisional and Township Officers was altogether insufficient. There are few districts of which this remark is not true. Conspicuous exceptions to this general neglect are Mr. Adamson, Mr. Nepean, Maung Myat Tha Gyaw, Maung Po Kyu, Maung Po Thi, Maung Po Thaw, Maung Po Te and Maung Gale among Subdivisional Officers and Maung Aung Gya, Maung Ba Pe, Maung Po Tun, Maung Saing, Maung Gale, Maung Tha Dun Gyaw, Maung Paw Shan and Maung Maung amongst Township Officers. Among Deputy Commissioners the thanks of the Department are due to Mr. Grahame, Major Ormiston and Captain Roberts who made numerous useful inspections.

The number of *kwins* checked by Superintendents of Land Records was 3,118, being 382 more than in 1910-11. The amount of inspection done by Mr. Purchase in Rangoon Town was very inadequate and that done by Mr. Thomas in Tharrawaddy was little better, while the Assistant Superintendents in charge of Thatôn and Mergui should have been able to visit more *kwins*. Of the officers who were on duty throughout most of the year the good work of Messrs. Palmer, Powell, DeSouza and Maung On Pe calls for especial mention.

The average number of *kwins* checked by Inspectors was 108 as against 95 in the preceding year. The increase is satisfactory but more work may reasonably be expected in Sandoway, Ma-ubin, Pyapôn, Toungoo, Mergui, Yamèthin and Rangoon Town. In Prome and in Meiktila a large number of *kwins* was visited but in the latter district the quality of much of the work was poor.

The result of all the inspection work done as reflected in the assessments was a *net* increase of Rs. 27,781. Most of this was contributed by Shwebo and Meiktila. In Meiktila examination of the *kaukkyi* rolls showed that surveyors shortly before submitting these rolls had struck off, as failures detected on second visits, large areas under chillie crops which there was good reason to believe had matured. Prompt *kwin* inspection proved that some 4,000 acres had been wrongly entered and revenue amounting to some Rs. 10,000 was thus secured.

13. *Miscellaneous Surveys by the Local Staff.*—Outside towns little work was done by the local staff in the survey of grants and leases, and Tavoy is the only district which reports an area of over 1,000 acres surveyed. But the revision and extension surveys carried out by the local staff comprised 239,208 cultivated acres, or over 24,000 acres more than in 1910-11. There are, however, a number of dry zone districts which report no outturn of work under this head. The increases in the occupied area of these districts ranged last year from 3,500 to 13,000 acres. No doubt much of this is made up of petty extensions which can at once be measured up by the chain and of which no record is kept, but it seems probable that in areas so extensive there must be blocks where the use of the plane table is indispensable if accuracy is to be attained, while it is strange if in some of the older *kwins* the survey does not require thorough revision. The special staff which was employed to keep up the maps in the Môn Canal area where the changes consequent on irrigation are numerous, did an inadequate amount of work. In Lower Burma except Sandoway where the survey has been neglected for some years, and Kyaukpyu, most districts report that a considerable number of *kwins* were visited, but the work was not everywhere sufficiently checked by the Superintendents. At the same time there appears to be little reason why in Lower Burma where the *mayin* and *kaing* assessments are for the most part light, the outturn of revision survey should not average 400 cultivated acres a surveyor. The average in Lower Burma for the year of report was only 175 acres but the standard of 400 acres ought to be possible for in Hanthawaddy 48 surveyors averaged over 600 acres and in Henzada the average for the whole surveying staff was over 400 acres. Both these districts did well and so did Pyapôn and Pegu. On the other hand the Tharrawaddy, Prome, Bassein and Ma-ubin returns are especially disappointing. Statement X.

The area of impermanent cultivation surveyed during the year by the local as well as by the periodical staff was 112,358 acres, over 20,000 acres more than in the preceding year. There are large increases in Akyab, Myaungmya and Shwebo of which the district reports furnish no explanation. The area in Pakôkku which requires to be surveyed year by year has again decreased and it appears that much of the island land in that district is becoming permanent.

14. *Revision Surveys by unattached extra Surveyors.*—Temporary establishments aggregating six Sub-surveyors, eight Inspectors and 46 Field-surveyors started revision survey work in eight districts under the scheme drawn up by Mr. Gibson. Advance skeleton plots, based on co-ordinate values except in Ma-ubin where the work was unorthodox, were prepared early in November and field work then commenced. The traversing to be done in running sub-traverses, connecting with old stations and laying down new stations was generally insufficient. The detail surveys were all by fields, no holding surveys being undertaken. In several places more survey had been done than was necessary as surveyors had not been provided with proper guide maps or lists of the areas requiring resurvey. Check lines were usually sufficient. The outturn in Hanthawaddy was very large, in Myaungmya and Pyapôn was large, in Thatôn was fair, in Henzada and Toungoo was small and in Ma-ubin was very small indeed. The gross area surveyed in all eight districts was 331 square miles with an occupied area of 168,340 acres. The cost rate works out to Rs. 140-8-0 per square mile gross, or 4 annas 5 pies per occupied acre, a reasonable figure. Statement XA.

The Assistant Director inspected the field work of all the districts and duly instructed the staff. The quality of the work generally was good especially in Hanthawaddy, Myaungmya, Pyapôn and Amherst. In Ma-ubin the work was poor. The mapping and area work is now in progress and will be finished by the end of October next when the staff will, under Government orders, be disbanded owing to lack of funds.

14A. *Scheme for future Revision Surveys.*—The programmes of re-survey which have been framed for Lower Burma Districts for the most part fail to place sufficient work on the permanent local staffs. For example, it appears to be contemplated in one district that the local staff will survey only 6,000 acres in the year and that a special staff will be engaged to survey another 17,000 acres. This district has a local staff of 53 surveyors which should be capable of undertaking the whole area without assistance from a special staff. The original programme drawn up by Mr. Gibson showed about $1\frac{1}{4}$ million acres for survey by unattached surveyors and about half a million acres by the permanent staff, the latter figure being based on an estimate that each surveyor of the permanent establishment would do from 150 acres to 300 acres in the year. In Pegu and in Hanthawaddy (Syriam) District it is found that the permanent staff can now do all the work for which special establishments were provided in the scheme. Credit for this satisfactory result is mainly due to Mr. Beechey, Superintendent of Land Records. Every endeavour will be made to get the local surveyors to work up to the standard of 400 acres per annum indicated in paragraph 13. With the larger outturn of work which may thus be expected the programmes for special establishments will require revision and curtailment before such establishments are again entertained. In Upper Burma, Magwe reports that there are no areas ripe for re-survey, a satisfactory but improbable state of things which should be verified.

15. *Preservation of permanent Survey and boundary marks.*—Headmen are stated to be taking an increased interest in this branch of their work and there were few districts in which they did not last year furnish reports on the condition of the permanent marks. Deputy Commissioners for the most part do not discuss the value of the reports which were furnished, but in Sagaing and Shwebo these were found unreliable when checked by the surveyors. In the Yandoon Subdivision of Ma-ubin the Subdivisional Officer, Maung Po Te, gave great attention to the marks and their condition there is reported to be very satisfactory. In the sea coast tracts of Pyapôn progress was made in the substitution of clay cylinders for the zinc pipes which had been originally put down and had largely corroded.

Progress was made with the protection of survey marks by masonry pillars in the towns of Rangoon, Pegu, Ma-ubin, Pakôkku, Mônywa and Myingyan, but in the towns of the Bassein, Myaungmya and Toungoo Districts and in various Upper Burma towns where no protection has been undertaken the marks are said to be disappearing quickly.

The upkeep of boundary marks in towns falls on landowners and is everywhere neglected by them. So far little has been done by the Land Records Department to replace marks which have been lost. A beginning, however, has now been made in Mandalay Town where over 4,000 of these marks were renewed last year.

16. *Inspection of Supplementary Survey Recess work.*—The inspection of surveyors' offices by Superintendents of Land Records was altogether insufficient in Akyab, Pyapôn, Tharrawaddy, Magwe, Shwebo, Kyauksè and Myingyan, and more should have been done in Myaungmya and Tavoy. Elsewhere a creditable amount of inspection was done by most Superintendents, in some districts all the offices being visited. The work done in office during the recess is the foundation of successful field work and unless it is adequately supervised the year's operations must be largely vitiated. It is therefore satisfactory to record that Inspectors did more in this respect than in the previous year and in some districts visited all the offices two or three times.

17. *Miscellaneous duties of the Land Records staff.*—(*a*) More attention was paid to the checking of *Thugyis'* measurements in areas outside supplementary survey during the year of report but in certain districts such as Prome, Bassein, Henzada and Tharrawaddy, Superintendents and Inspectors are still remiss in attention to this work. How important it is, has been well shown in Thayetmyo this year where, as the result of careful inspection the *Thugyis'* measurements were found to be under-estimated to the extent of 3,500 acres and a corresponding increase in revenue was secured.

(*b*) In most districts the check of tax tickets, which was on the whole less in quantity than in the previous year, revealed clerical errors only. One of these, in Yamèthin District, would if undetected, have involved a loss of Rs. 200. The errors found in Henzada were astonishingly few and in Sagaing extraordinarily numerous. In Thayetmyo a Headman who was caught tampering with the tickets absconded. A suspected case of fraudulent alteration in Thatôn was under investigation at the close of the year.

(*c*) Many grazing grounds were demarcated or redemarcated in Akyab, Kyaukpyu, Hanthawaddy, Bassein, Myaungmya, Ma-ubin and Tavoy. In Arakan angle iron posts were used, elsewhere reinforced concrete pillars. Pillars for demarcation were collected in Pyapôn Town but could not be distributed to the various towns as funds for transport were not available. In Tharrawaddy temporary demarcation with posts was carried out. Progress was made with the revision of boundaries in Amherst and Hanthawaddy. In Minbu the grounds in the Môn Canal area were thrown open to cultivation. The Land Records Department was alive in most districts to the necessity of checking encroachments and a number of successful prosecutions was instituted.

Chapter VIII-M of the Land Records Manual prescribes the duties of the surveyor in connection with encroachments on demarcated public roads as well as on grazing grounds and fisheries. No mention of action taken in respect of road encroachments appears in any district report. This will be pointed out to district officers.

(*d*) Experience is not uniform, but on the whole cultivators in Lower Burma are remiss in reporting transfers of land to the surveyors. But intimation of registered transactions is regularly furnished by Sub-Registrars. In Upper Burma the surveyors have now taken over from the Headmen the recording of changes reported. It is yet too soon to say whether this will lead to improvement in the upkeep of the record of rights. For the most part cultivators still appear heedless of the names in which their lands are registered. In one district it is said that reports of changes are deliberately suppressed because it is feared that if transfers were known punishment would be meted out for supposed breaches of the registration regulation.

(*e*) Many district reports are not explicit as to the prepartion of lists of unauthorized alienations, but it seems probable that the prescribed lists were not drawn up in Kyaukpyu, Sandoway, Tharrawaddy, Henzada, Toungoo, Tavoy and Mergui. In Pegu where there are 2,000 cases awaiting investigation, and in Myaungmya, the Record-keepers were, as it is definitely stated, unable to cope with the work. In Bassein the lists are said to have been prepared by the surveyors, but it is not clear how the status of the transferers was determined without reference to the maps and registers of past years now in the Record-room.

18. *The condition of Land Records Offices and Record-rooms.*—Thirty offices and record-rooms were inspected by the administrative officers of the Department during the year. The Hanthawaddy, Amherst, Ma-ubin, Henzada and Pyapôn record-rooms were found in bad order. Complaints of poor accommodation are made at Bassein, Sandoway, Thatôn, Amherst, Tavoy and Pakôkku.

19. *Conduct of the Subordinate Land Records staff.*—Two Inspectors and thirty-six surveyors were removed or dismissed during the year while three Inspectors and forty surveyors were reduced. It was found necessary to take drastic action against the staff in Shwebo, Meiktila and Yamèthin on account of dishonesty and slackness.

CHAPTER IV.

TRAINING OF OFFICERS.

Statement XI.

20. *Survey Schools.*—Of 19 Government Survey Schools, all but five are accommodated in Government buildings. The daily average number of pupils on the rolls was 298. The attendance and the number of candidates appearing at the Syndicate Examination are steadily decreasing. Exemptions from the payment of the school fees are too freely given in several districts. Of the pupils admitted into the schools 45 per cent. had passed the VI standard. The admission test for unqualified candidates coming from Myingyan and some other centres was not sufficiently strict. The demand for qualified surveyors continues on the whole to be good. The number of available scholarships are 68 of the 1st grade and 144 of the 2nd grade. Owing to the paucity of scholars, six of these were not allotted at all, while fourteen lapsed after a brief use and were not re-allotted. It has been decided to transform 2nd grade scholarships of Rs. 5 per mensem into half the number of 1st grade scholarships of Rs. 10. The total scholarship payments amounted to Rs. 14,367. The total expenditure on schools was Rs. 39,000 against an income of Rs. 3,682; this gives the net cost at Rs. 35,318. The cost of educating each pupil thus works out to Rs. 119 which is higher than in previous years, a result due to the marked decrease in the number of pupils entering the schools. The number of candidates from Government Survey Schools who qualified at the Syndicate Examination of April 1912 was 215 in Surveying, 163 in Arithmetic and 172 in Revenue Law; this gives a percentage of passes on the number of pupils who sat for examination in each of the subjects at 79, 65 and 69, respectively. The results are satisfactory. More attention is now paid to the study of Arithmetic and Revenue Law. The schools that did best all round are those of Minbu and Shwebo. Those that fared worst are Akyab and Yamèthin. Revenue was particularly weak in Kyaukpyu and Akyab, and Arithmetic in Akyab, Pegu and Ma-ubin. The 'Clancey' medal for Surveying was awarded to a pupil of the Pakôkku school. The teachers as a class are competent and have on the whole worked well, more especially those of Shwebo, Pakôkku, Amherst, Bassein and Ma-ubin. The Tavoy teacher should be stricter with his pupils; those at Pegu and Prome are working better, but still require close supervision. The teacher of Minbu was granted a Myoôkship for his conspicuously good and successful work extending over a long period of years. All the schools without exception were inspected by the administrative officers of the Department. The condition of the schools, with minor exceptions, was satisfactory. Generally speaking, field work is well practiced, and book work also receives due attention. The former was found defective in the Lower Chindwin, Henzada, Pegu and Kyaukpyu. The mapping was particularly good in Amherst, Minbu and Bassein; but at several centres drawing and printing require to be better taught. In Pegu there were some irregular admissions. The discipline at Kyaukpyu was slack. The schools were in most places frequently visited by the local Superintendents of Land Records; but supervision was inadequate in Akyab, Henzada, Lower Chindwin, Ma-ubin, Katha, Hanthawaddy, Pegu, Meiktila and Prome. The school at Pegu was inspected by the Deputy Commissioner.

21. *The Training of Apprentices.*—The annual examination of apprentices was not held in Prome, Toungoo, Minbu and Magwe. In other districts where the examination was duly held, care was taken to demand a high standard. Sixty-two per cent. of those who appeared obtained the certificate of proficiency.

22. *The Qualifications and Training of the Subordinate staff.*—The personal instruction in the field of the assembled staff during October or November is one of the most important duties of a Superintendent, but it was apparently neglected in a number of districts amongst which were Tharrawaddy, Prome, Myaungmya, Ma-ubin, Toungoo and Thatôn. In a few districts some instruction was given in the theodolite. In Yamèthin where it was found that the staff was unable to conduct the survey of large blocks a camp of surveyors was formed for fifteen days and valuable teaching given.

23. *The Training of Junior and Probationary Superintendents.*—From the 1st April 1912 the control of the Survey Training Camp was transferred to this Department. The service of the Instructor Mr. C. S. Littlewood being lent by the Survey of India Department until the 31st July 1913 when the camp will be broken up. After a brief period at Maymyo the headquarters of the camp was shifted to Yamèthin and remained there for the rest of the year. The three Probationers still under training in the Survey Camp in June 1911 were passed out in November. When they left the camp five Junior Superintendents and one Probationer from Dehra Dun entered the camp. The former for the full survey course of one year and the latter for nine months only. The greater portion of the training was given by the Instructor at Yamèthin but the Superintendents spent a couple of months during the cold weather studying topographical work in the Katha District with No. 10 Survey of India Topographical Party. The instruction given was thoroughly practical in character. Of 16-inch work some 10 square miles containing about 4,500 acres were mapped. As mentioned in paragraph 5 an area of 248 acres in Yamèthin Town was traversed and mapped on the 64″ scale. The outturn was necessarily small but the work was sound. Five officers were still under training at the close of the year, one having been invalided a short time previously. Field work was inspected by the Assistant Director and was found to be good. The Commissioner of Settlements and Land Records visited the camp in June 1912 and found that recess work was satisfactory and that the officers were making good use of the training. Some of the officers were late in first joining the camp and this combined with holidays and too frequent absences on short leave interfered with work. This will be avoided in future. The three Probationers who left the camp on completing their survey training in November 1911 then took up their Land Records training in District Land Records Offices. All three officers successfully passed their examination at the end of six months and were posted to regular duty. For next season, when seven Superintendents are to be trained, the training programme has been slightly modified and the headquarters of the camp will be shifted to Tavoy in order to be near No. 11 Topographical Party. It is important that the Land Records camp should be in the same district so that officers may not waste time in taking up and returning from their short topographical course.

24. *Training of Civil Officers in Survey and Land Records work.*—Eight officers from the Commission, five Extra Assistant Commissioners and 45 Myoôks were trained in Survey and Land Records work during the year.

CHAPTER V.

ADMINISTRATION AND GENERAL.

25. *Gazetted staff.*—Mr. A. Gaitskell, I.C.S., officiated as Commissioner of Settlements and Land Records till the 3rd April 1912 when Mr. H. M. S. Mathews, C.S.I., resumed charge on returning from leave. The post of Deputy Director was held by Mr. T. Couper, I.C.S., and that of Assistant Director by Mr. J. C. Clancey, I.S.O., throughout the year. Both officers rendered invaluable assistance in the administration of the Department. The establishment of Superintendents and Assistant Superintendents was up to its full strength of 47 officers until February 1912 when death removed Maung Ba On, a Superintendent who had rendered long and valued service. A Probationer could not be appointed at once to fill the vacancy as the course for Probationers at the Dehra Dun Survey School does not commence till November. One Superintendent was reduced to Assistant Superintendent. The cadre provides 41 Superintendents and six Assistants. At the close of the year there were 34 Superintendents and 12 Assistant Superintendents on the List. Promotions to fill the rank of Superintendents will be made later on when the Assistants, most of whom are very junior, have shown what they are worth. Five officers were on long leave during the year. Owing to the deputation of several Junior Superintendents for survey training the strain on the Department continued during the year. One district Land Records charge, Meiktila, was held throughout the year by Myoôk Maung

On Pe who is doing good work. Candidates for Assistant Superintendents appointments are numerous. There are 44 of these candidates on the register. Selection depends mainly on educational, especially mathematical, qualifications.

26. *Replacement of* Taik-thugyis *by Revenue Surveyors.*—Deaths and retirements amongst Circle *Thugyis* have now reduced the total number of these officials to 103. Of this number five in the Hanthawaddy District were in the course of the year relieved of responsibility for the upkeep of Land Records work.

27. *Famine.*—Programmes of Famine Relief works were prepared and issued as usual. These programmes still contain an unduly small proportion of large sanctioned works suitable for famine relief. The analyses of districts were not revised. Schedule H-II of the Famine Code, showing normal, warning and scarcity quantities of common rice and jowar obtainable per rupee, was revised at the end of the year. The normals in this Schedule are based on averages of ten years modified after consideration of steadily rising prices. Even so the scarcity rates do not indicate actual conditions for those rates have been everywhere exceeded although scarcity, as contemplated by the Famine Code, does not exist. The schedule does not appear to be applicable in a Province where prices are ruled by extra provincial demands in the export markets.

28. *Miscellaneous.*—The year opened with favourable agricultural conditions and as the previous year had been fair, the allotment of agricultural advances was normal. The usual forecasts for the rice, cotton and groundnut crops were prepared. The half-yearly returns of wages have been elaborated under the orders of the Government of India and are giving additional work both in District Offices and at headquarters. The new forms issued in 1910 and the first return prepared in this form was that for the wages paid in June 1911. Owing to various causes including difficulties in getting Census figures, the return was still in hand at the end of the year. Suggestions for making this a decennial return were not accepted. Further experiments made during the year showed that 16″ maps can be conveniently reproduced by the Vandyke process and this has consequently been laid down as the ordinary process for reproducing these maps. Experiments were also made in the reproduction by mechanical process of settlement soil class boundaries and symbols on the *kwin* sheets. Orders had not been passed in this matter at the end of the year.

H. M. S. MATHEWS,

Rangoon: 26th August 1912. *Commissioner of Settlements and Land Records, Burma.*

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STATEMENT NO. I.—*Area under, and Cost of, Demarcation preliminary to Original Cadastral Survey outside Towns in* 1911-12 (Paragraph 2).

District.	Demarcation Officers.	Period employed.	Area demarcated.		Cost of demarcation (if any).			Remarks.
			Gross.	Occupied.	Total.	Per square mile, gross.	Per occupied acre.	
1	2	3	4	5	6	7	8	9
		Months.	Sq. Miles.	Acres.	Rs.	Rs. A.	Rs. A.	
Bassein	1	4	32·21	15,778	891	27 10	0 1	
TOTAL FOR 1911-12 ...	1	4	32·21	15,778	891	27 10	0 1	

STATEMENT NO. II.

Nil.

STATEMENT NO. III.—*Area under, and Cost of, Extension Surveys (by Special Staff only), in* 1911-12 (Paragraph 4).

District.	Traverse (Field).							Cadastral (Field).											Cadastral (Recess).	Cost (Field and Recess).			
						Mathematical results.		Staff.					Area.		Fields.		Kwins partalled.							
	Sub-Surveyors.	Period.	Kwins.	Area.	Azimuths observed.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Kwins.	Gross.	Occupied.	Number.	Average size.	Kwins holding-marked.	By Superintendent.	By Inspectors.	Compositors, Draughtsmen, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	No.	Mths.	No.	Acres.	No.	Sec. dec.	Links.dec.	No.	No.	No.	Mths.	No.	Sq. Mls.	Acs.		A.dec.	No.	No.	No.	No.	M.	Rs.	Rs. A.	A. P.	
Bassein...	2	5	58	16,823	9	1·29	0·053	2	10	2	9	88	36·81	17,317	48,923	·35	...	27	88	7	6	8,496	230 12	7 10	
TOTAL FOR 1911-12.	2	5	58	16,823	9	1·29	0·053	2	10	2	9	88	36·81	17,317	48,923	·35	...	27	88	7	6	8,496	230 12	7 10	

STATEMENT NO. IV.—*Area under, and Cost of, Demarcation and Survey of Town Lands in* 1911-12 (Paragraph 5).

District.	Demarcation.					Survey.												Cost (Field and Recess).
						Traverse (Field).				Cadastral (Field).						Recess.		
	Demarcation Officers.	Period.	Towns.	Area.	Cost.	Sub-Surveyors.	Period.	Towns.	Area.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Towns.	Area.	Inspectors, Draughtsmen and Computors.	Period.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		Months.		Sq. Miles.	Rs.		Months.		Sq. Miles.				Months.		Sq. Miles.		Months.	Rs.
Rangoon Town	1	4	1	0·50	2,381	1	3	1	0·44	...	1		2	1	0·06	...	...	797
Hanthawaddy ...	1	1½	3	3·05	145	4	2	3	3·05	2	12	...	3	3	3·05	13	3	7,895
Amherst ...	...	...	...	...	...	...	..	..	...	...	...	...	...	..	...	6	6	1,668
Mergui ...	...	...	...	...	...	2	2	1	1·56	1	2	...	6	1	1·56	5	6	3,597
Minbu ...	1	4	4	8·00	682	...	...	...	...	...	...	...	...	...	...	...	...	...
Katha ...	1	6	3	1·48	849	...	...	...	...	...	1	...	5	6	1·48	1	3	671
TOTAL FOR 1911-12	4	14·6	11	8·03	4,057	7	2·3	5	5·05	3	16	...	2·6	11	6·17	25	2·6	14,249
TOTAL FOR 1910-11	4	2½—4	6	* 10·78	2,563	1	2	3	0·84	...	2	1	3	3	0·84	4	2	1,288

* Revised figures.

STATEMENT No. V.—*Area under, and Cost of, Demarcation and Survey of Fisheries (by Special Staff only) in* 1911-12 (Paragraph 6).

Tract. / District.	Demarcation.					Survey (Field).									Survey (Recess).		Cost (Field and Recess).
						Staff.				Fisheries Surveyed.			Fisheries inspected.				
	Demarcation Officers.	Period.	Fisheries.	Area.	Cost.	Inspectors.	Surveyors.	Draughtsmen and Clerks.	Period.	Whole.	Subdivisions.	Area.	By Superintendent.	By inspectors.	Inspectors, Draughtsmen and Clerks.	Period.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	No.	Mths.	No.	Acs.	Rs.	No.	No.	No.	Mths.	No.	No.	Acs.	No.	No.	No.	Mths.	Rs.
Tharrawaddy ...	1	6	272	37,760	1,933	1	5	1	6	81	189	...	10	116	3	4	5,391
Toungoo ...	1	6	120	39,865	3,386	..	...	...	...	...	...	...	...	...	...	...	...
TOTAL FOR 1911-12	2	6	392	77,625	5,379	1	5	1	6	81	189	...	10	116	3	4	5,391
TOTAL FOR 1910-11	2	5	81	...	859	...	6	1	6	81	...	...	37	...	...	...	1,178

STATEMENT No. VI.—*Area under, and Cost of, Patta Surveys (by Special Staff only), in* 1911-12 (Paragraph 7).

District.	Survey.										Plots checked.				Remarks.
	Staff.			Pattas.				Fees.		Cost.			By Inspectors.		
				For Survey.		Surveyed.									
	Inspectors.	Surveyors.	Period.	No.	Area.	No.	Area.	Rate per acre.	Amount realized.	Contract system.	Regular pay.	By Superintendent.			
												No.	Area.	No.	Area.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	No.	No.	Mths.		Acres.		Acres.	Rs. A.	Rs.	Rs.	Rs. A.		Acres.		Acres.	
Akyab ...	...	5	5	198	1,729	193	1,714	0 8	857	953*	...	...	...	3	20	*Includes payments for previous year's surveys.
Kyaukpyu ...	...	7	9	210	4,099	189	3,979	0 8	2,300†	2,654*	854—8	21	110	17	350	†Includes fees realized in previous year.
Sandoway ...	...	3	11	48	302	48	302	0 8	240	211	...	...	...	...	...	
Hanthawaddy ...	...	7	6	164	1,440	16	1,440	0 6 to 1 8	732	732	...	3	466	3	466	‡ Includes six leases for rubber cultivation.
Pegu ...	...	3	1—4	34	1,300	3	1,251	0 8	650	50	597—0	...	...	...	1,151	§ Includes a lease for rubber and castor cultivation.
Toungoo ...	...	3	6	11	568	11	568	0 8	271	139	...	...	...	11	568	
Thatôn ...	...	12	6	605‡	7,092	604	7,087	0 2 to 0 8	3,193¶	2,510¶	...	...	...	95	1,997	‡ Includes a lease for rubber cultivation.
Amherst ...	...	12	7	24	8,789	22	7,250	0 2 to 0 8	2,793	1,530	...	1	100	12	3,025	¶ Includes for special 10 acre plots.
Tavoy ...	...	4	6	104	1,613	81	1,519	0 8	162	152	..	...	...	2	18	
Mergui ...	...	4	7	189	4,266	151**	3,620	0 8 to 1 8	2,899	1,328	...	2	769	16	230	** Payment of Rs. 330 for 68 cases still due.
Thayetmyo ...	...	2	1	1	161	1	161	0 6	50	50	...	...	...	1	161	
Minbu ...	...	1	1	1	100	1	100	0 8	50	50	...	...	...	1	100	
TOTAL FOR 1911-12 ..	...	63	1-11	1,410	31,474	1,320	28,991	0 2 to 1 8	13,457	10,407	951—8	27	1,445	161	8,081	
TOTAL FOR 1910-11 ...	1	52	5-11	1,113	46,569	937	45,002	0 2 Re. 1-8	23,331	13,914	554—0	6	5,196	614	33,165	

STATEMENT No. VII.—*Area under Supplementary*

District.	No. of *kwins*.	Supplementary Survey in Rural Areas. Total area. Total area under Supplementary Survey.	Under occupation.	Under cultivation.	Under assessment.	Total assessment (including cess in Lower Burma) on the area in column 4.
1	2	3	4	5	6	7
	No.	Sq. Miles.	Acres.	Acres.	Acres.	Rs.
Akyab	1,242	2,078	696,878	598,948	694,061	19,33,273
Kyaukpyu	792	814	173,532	166,071	169,772	2,92,998
Sandoway	291	268	57,168	54,167	56,272	1,08,380
Rangoon Town	...	...	...	...	...	...
Hanthawaddy	1,780	2,659	1,232,835	1,101,147	1,144,890	37,97,888
Tharrawaddy	602	1,264	489,048	447,239	489,048	12,30,211
Pegu	1,423	2,314	872,948	815,093	870,286	23,15,803
Prome	1,026	1,714	363,585	340,655	363,504	6,08,706
Bassein	1,269	2,216	702,837	629,987	701,942	16,80,201
Henzada	849	1,793	573,415	544,263	579,511	14,83,286
Myaungmya	1,068	1,816	649,837	592,109	648,903	21,35,186
Ma-ubin	592	1,634	443,844	419,491	422,421	14,31,191
Pyapôn	839	1,284	629,114	597,053	628,955	20,31,380
Toungoo	765	1,470	413,677	381,187	387,339	8,54,663
Thatôn	1,762	2,390	684,881	629,135	658,081	13,45,965
Amherst	1,223	1,752	499,826	435,896	495,896	9,89,719
Tavoy	486	465	123,391	115,978	121,789	3,19,957
Mergui	638	588	95,980	87,146	92,033	2,49,617
Thayetmyo	711	1,229	159,050	119,987	117,424	1,92,229
Pakôkku	1,895	1,683	737,825	462,827	324,734	4,31,696
Minbu	846	1,418	442,513	228,624	211,859	568,671
Magwe	2,121	2,717	947,584	427,955	383,849	4,58,571
Mandalay Town ...	14	9	4751	3,192	3,037	16,233
Mandalay	756	688	248,021	163,600	148,516	7,64,535
Katha	1,953	1,078	207,135	186,339	180,680	2,28,429
Shwebo	3,649	3,680	1,008,474	543,161	448,882	10,68,465
Sagaing	1,179	1,822	744,009	462,815	357,540	3,93,466
Lower Chindwin	1,605	2,539	773,133	446,020	359,489	3,42,299
Upper Chindwin	188	107	40,422	30,989	30,724	37,313
Kyauksè	642	567	254,510	165,826	143,759	6,85,698
Meiktila	1,988	1,616	655,813	323,922	255,771	3,33,329
Yamèthin	1,886	1,651	504,298	348,398	262,844	4,95,924
Myingyan	2,832	2,898	1,194,568	601,216	460,309	3,49,015
TOTAL FOR 1911-12 ...	38,853	50,221	16,624,922	12,570,736	12,214,120	2,91,79,198
TOTAL FOR 1910-11 ...	37,469*	49,351*	16,106,201	12,315,620	12,221,125	2,90,19,261*

*Revised

Survey for the year 1911-12 (Paragraphs 8 and 9).

Supplementary Survey in Towns.						Total area under Supplementary Survey.	Total area occupied.	Total assessment.	Remarks.
No. of Towns.	No. of Blocks.	Total areas. Gross area.	Occupied area in Town Register I.	Area under assessment.	Total Land Revenue and Rent.				
8	9	10	11	12	13	14	15	16	17
No.	No.	Sq. Miles.	Acres.	Acres.	Rs.	Sq. Miles.	Acres.	Rs	
1	9	5	1,858	1,703	5,425	2,083	698.776	19,38,698	
1	6	1	380	313	700	815	173.932	2,93,698	
1	6	1	182	179	3,44[illegible]	269	57,350	1,11,821	
1	52	30	13,217	8,604	5,50,061	30	13,217	5,50,061	
18	114	14	5,936	5,673	5[illegible],082	2,673	1,238,771	38,55,970	
12	62	16	7,093	6,934	33,495	1,280	496,141	12,63,706	
19	118	14	5,098	5,055	56,305	2,328	878,046	23,72,108	
7	35	9	4,530	3,590	30,968	1,723	368,115	6,39,674	
6	95	19	7,101	6,651	25,923	2,235	709,938	17,06,124	
10	98	16	6,[illegible]30	6,037	18,506	1,809	579.945	15.06,792	
6	62	4	1,533	1,297	6,934	1,820	651,370	21,42,120	
5	61	7	2,621	2,621	14,270	1,641	446,465	4,45,371	
5	231	6	2,907	2,129	16,309	1,290	632,021	20,47,689	
10	413	13	4,276	3,990	18,550	1,483	417,953	8,73,222	
9	246	13	4,959	3,305	10,472	2,403	689,840	13,56,437	
2	19	4	1,634	1,475	2,749	1,756	501,460	9,92,468	
1	30	4	1,551	1,302	4,124	469	124,942	3,24,081	
2	143	2	1,015	853	4,228	590	96,995	2,53,845	
2	14	2	854	782	9,733	1,231	159,904	2,01,962	
1	51	4	360	50	1,413	1,687	738,185	4,33,109	
4	35	3	1,786	824	3,383	1,421	444,299	572,054	
3	24	4	1,221	232	4,105	2,721	948,805	4,62,676	
1	901	10	6,597	4,642	18,360	19	11,318	54,593	
1	19	7	1,381	1,381	3,155	695	249,402	7,67,690	
6	59	2	990	308	5,128	1,080	208,125	2,33,557	
16	44	4	1,122	252	3,921	3,684	1,009,596	10,72,385	
3	13	3	1,231	650	3,770	1,825	745.240	3,97,236	
2	23	2	796	217	685	2,541	773,929	3,42,975	
...	...	...	...	...	...	107	40,422	37,313	
...	...	...	...	...	...	567	254,510	6,85,698	
4	..	5	1,026	1,025	4,[illegible]15	1,621	656,839	3,38,044	
...	...	...	...	...	3,531	1,651	504,298	4,99,455	
2	57	5	489	...	...	2,903	1,195,057	3,49,015	
161	3,043	229	90,314	72,074	9,22,450	50,450	16,715,236	3,01,01,648	
158	2,982	226*	87,466*	70,113	8,17,670	49.577*	16,193,667*	2,58,36,931*	

figures.

STATEMENT No. VIII.—*Cost of Supplementary*

District.	Superintendence and Inspection.				Supplementary Survey				
					Number of Survey Charges.				
	Pay and Travelling Allowance of Superintendent and Assistant Superintendent, if any.	Number of Inspectors.	Pay and Travelling Allowance of Subordinate Inspecting and Clerical establishment.	Total cost (column 2 and column 4).	Revenue Surveyors' charges, Rural	Revenue Surveyors' charges, Urban.	Revenue Surveyors' charges partly Rural and partly Urban.	Survey charges in *taiks*.	Survey charges partly in *taiks* and partly in Revenue Surveyor's charges.
1	2	3	4	5	6	7	8	9	10
	Rs.	No.	Rs.	Rs.	No.	No.	No.	No.	No.
Akyab ...	5,618	7	12,492	18,110	84	2	...	3	...
Kyaukpyu ...	4,033	4	6,926	10,959	13	...	...	10	6
Sandoway ...	4,669	3	5,223	9,892	11	...	1	...	2
Rangoon Town ...	7,920	2	9,009	16,929	...	16	...	...	...
Hanthawaddy ...	17,336	11	24,534	41,870	74	2	15	29	...
Tharrawaddy ...	4,110	5	8,543	12,653	38	...	12*	10	...
Pegu ...	8,135	10	14,731	22,866	73	2	18	...	...
Prome ...	6,462	5	7,062	13,524	38	3	6	8	3
Bassein ...	7,577	9	14,859	22,436	57	7	...	14	...
Henzada ...	4,499	6	10,368	14,867	41	1	8	14	1
Myaungmya ...	6,781	6	10,933	17,714	49	...	6	10	...
Ma-ubin ...	4,518	5	9,479	13,997	47	...	5	2	...
Pyapôn ...	5,693	7	13,354	19,047	62	...	4	5	...
Toungoo ...	6,297	5	7,697	13,994	31	2	11	2	1
Thatôn ...	4,041	8	12,543	16,584	74	3	2	2	...
Amherst ...	6,699	5	8,523	15,222	47	...	2	9	2
Tavoy ...	4,217	3	5,493	9,710	15	2	1	4	1
Mergui ...	3,618	3	6,058	9,676	20	...	2	...	...
Thayetmyo ...	5,674	4	5,974	11,648	25	1	6	...	4
Pakôkku ...	7,890	9	9,571	17,461	71	1	...	...	...
Minbu ...	4,136	5	9,586	13,722	46	...	2	...	...
Magwe ...	6,365	8	11,890	18,255	73	...	3	...	...
Mandalay Town ...	4,200	2	5,953	10,153	1	13	...	...	...
Mandalay ...	11,755	5	8,979	20,734	47	2	...	...	...
Katha ...	4,444	5	8,247	12,691	38	1	...	..	...
Shwebo ...	7,876	12	17,070	24,946	102	...	16	...	...
Sagaing ...	5,546	8	12,158	17,704	69	1	...	...	...
Lower Chindwin ...	7,393	7	9,817	17,210	61	...	2	...	...
Upper Chindwin ...	4,413	1	3,685	8,098	8	...	...	...	...
Kyauksè ...	5,092	6	9,538	14,630	45	...	...	...	...
Meiktila ...	3,673	5	7,983	11,656	54	1	...	...	...
Yamèthin ...	6,710	6	10,018	16,728	60	1‡	...	...	...
Myingyan ...	6,032	8	11,037	17,069	74	...	1	...	...
TOTAL FOR 1911-12...	2,03,422	195	3,29,333	5,32,755	1,548	61	123	122	20
TOTAL FOR 1910-11...	1,98,882	189§	3,15,752§	5,14,634§	1,474§	62§	115§	160§	16§

§ Revised

Survey Staff in 1911-12 (Paragraph 10).

Field Staff.			Contingencies and supplies and services.	Total cost of supplementary survey.	Average cost					Remarks.
							Of Supplementary Survey.			
Number of Surveyors without local charges.	Number of periodical Surveyors.	Total cost of field supplementary survey staff.			Of supervision and inspection per square mile.	Of supplementary survey field staff per square mile.	Per square mile.	Per occupied acre.	Per cent. of total assessment.	
11	12	13	14	15	16	17	18	19	20	21
No.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Annas.		
...	...	45,309	2,805	65,224	8·69	2·75	31·79	1·516	3·42	
...	1	12,080	1,878	24,917	13·45	14·82	30·57	2·292	8·48	
...	...	5,908	948	16,748	36·77	21·96	62·26	4·673	14·98	
2	...	21,700	1,402	40,031	564·30	723·33	1,334·57	48·460	7·28	
...	...	70,442	4,838	1,17,150	15·66	26·35	43·83	1·513	3·04	
...	...	31,864	2,332	46,849	9·89	24·89	36·60	1·511	3·71	* Includes 4 *Taikesayes.*
...	...	55,077	3,241	82,084	9·82	21·05	35·26	1·496	3·46	
...	...	33,493	1,631	48,648	7·85	19·41	28·23	2·114	7·61	
...	...	41,301	1,728	65,465	10·04	18·48	29·29	1·475	3 84	
...	...	40,870	1,133	56,870	8·22	22·59	31·44	1·569	3·77	
...	...	33,901	1,817	53,432	9·73	18·63	29·36	1·312	2·49	
...	...	29,906	2,256	46,179	8·53	18·24	28·14	1·655	3·19	
...	...	39,297	1,552	59,896	14·77	30·46	46·43	1·516	2·93	
...	...	23,687	1,481	39,162	9·44	15·97	26·41	1·499	4·48	
...	2	44,652	1,896	63,132	6·90	18·58	26·27	1·464	4·65	
...	...	28,213	1,794	45,229	8·67	16·07	25·76	1·443	4·56	
...	...	12,260	1,620	23,590	20·70	26·14	50·30	3·021	7·28	
...	...	11,058	970	21,704	16·40	18·74	36·79	3·580	8·55	
...	2	10,124	2,146	23,918	9·46	8·22	19·43	2·393	11·84	
...	14	41,825	3,038	62,324	10·35	24·79	36·94	1·351	14·39	
...	4	20,948	1,695	36,365	9·66	14·74	25·59	1·310	6·36	
...	5	31,996	2,582	52,833	6·71	11·76	19·42	·891	11·42	
2	...	8,904	929	19,986	534·37	468·63	1,651·89	28·179	57·77	
3	4	24,205	1,268	45,207	29·83	34·83	66·48	2·964	6·02	
...	...	20,445	2,235	35,371	11·75	18·93	32·75	2·719	15·15	
...	16	54,379	3,112	82,437	6·77	14·76	22·38	1·306	7·69	
...	8	31,611	1,748	51,063	9·70	17·32	27·98	1·096	12·85	
...	2	29,360	1,822	48,392	6·77	11·55	19·04	1·000	14·11	
...	...	4,847	1,039	13,984	75·68	45·30	130·69	5·535	37·48	
3	...	20,838	988	36,456	25·80	36·75	64·30	2·292	5·32	
...	...	23,869	2,033	37,558	7·19	14·72	23·17	0·915	11·11	
...	...	28,626	2,067	47,421	10·13	17·34	28·72	1·504	9·49	‡ Employed in the survey of Leases, etc., relating to Railway Towns.
...	10	31,385	1,431	49,885	5·88	10·81	17·18	0·668	14·29	
10	68	9,65,300	63,455	15,61,510	10·56	19·13	30·95	1·495	5·19	
8	83	8,89,046§	66,445	14,70,125§	10·38§	17·93§	29·65§	1·453§	4·92§	

figures.

STATEMENT NO. IX.—*Supplementary Survey*

District.	Number of *kwins* in the District under Supplementary Survey.	Number of *kwins* under Supplementary Survey in which the Field Work was tested											Total number of *kwins* inspected by all Inspecting Officers.
		By District Officers.							By the Land Records Staff.				
		Deputy Commissioner.	Subdivisional Officers.			Township Officers.			Superintendent.	Inspectors			
			Number of Officers.	Number of *kwins* checked.	Average.	Number of Officers.	Number of *kwins* checked.	Average.		Number of Inspectors.	Number of *kwins* checked.	Average.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Akyab	1,242	6	4	20	5	9	107	11	101	7	718	103	784
Kyaukpyu	792	3	1	7	7	5	35	7	85	4	332	83	462
Sandoway	291	1	...	...	...	3	24	8	75	3	220	73	221
Rangoon Town ...	...	...	...	...	...	..	...	...	...	..	...	...	...
Hanthawaddy ...	1,780	...	3	8	3	8	23	3	85	10	957	96	1,073
Tharrawaddy ...	602	4	2	50	25	6	39	7	43	5	487	97	530
Pegu	1,423	32	3	42	14	6	40	7	68	9	862	96	1,044
Prome	1,026	...	3	30	10	7	42	6	132	5	736	147	754
Bassein	1,269	30	2	12	6	6	24	4	67	8	670	84	689
Henzada	849	5	2	20	10	6	19	3	101	6	494	82	639
Myaungmya ...	1,068	10	2	16	8	4	58	15	80	6	624	104	657
Ma-ubin	592	42	2	75	38	4	55	14	93	5	357	71	622
Pyapôn	839	2	2	3	2	4	15	4	79	7	521	74	620
Toungoo	765	1	3	15	5	7	17	2	56	5	342	68	350
Thatôn	1,072	...	3	27	9	6	82	14	69	8	858	107	1,036
Amherst	1,223	3	3	8	3	8	28	4	88	5	431	86	506
Tavoy	485	2	...	...	...	4	17	4	108	3	324	108	362
Mergui	638	...	2	20	10	4	24	6	76	3	230	77	330
Thayetmyo	711	3	2	9	5	6	45	8	122	4	393	98	572
Pakôkku	1,895	14	2	13	7	5	20	4	128(*a*)	9	1,055	117	1,210
Minbu	846	8	2	23	12	5	25	5	65	5	697	139	818
Magwe	212	...	2	7	4	6	51	9	120	8	1,098	137	963
Mandalay Town ...	14	...	...	...	...	...	...	...	10	1	7	7	7
Mandalay	756	5	2	28	14	4	25	6	115(*b*)	5	713	143	677
Katha	1,953	3	3	56	19	7	42	6	126	5	607	121	834
Shwebo	3,649	4	3	20	7	9	125	14	178(*c*)	12	1,460	122	1,606
Sagaing	1,179	2	2	14	7	6	149	25	143	8	1,005	126	868
Lower Chindwin ...	1,606	...	2	40	20	5	58	12	124	7	572	82	615
Upper Chindwin ...	188	1	1	11	11	1	7	7	96	1	113	113	128
Kyauksè	642	9	2	14	7	3	6	2	76	6	742	124	467
Meiktila	1,988	9	2	46	23	4	216	54	185	5	1,191	238	1,033
Yamèthin	1,886	...	2	3	2	5	30	6	93(*d*)	6	521	87	632
Myingyan	2,832	6	2	98	49	6	182	30	131	8	1,012	133	1,342
TOTAL FOR 1911-12 ...	36,314	205	66	735	11	169	1,625	10	3,118	189	20,309	108	22,651
TOTAL FOR 1910-11 ...	37,495	222	66	586	9	165	1,305	8	2,736	187	17,767	95	20,014*

* Revised

(*a*) Includes 10 *kwins* inspected
(*b*) Excludes 19 *kwins* inspected
(*c*) Includes 57 *kwins* inspected
(*d*) Includes 30 *kwins* inspected

Inspections, for the year 1911-12 (Paragraph 12).

Abstract of errors discovered by the Land Records Staff.																
Errors affecting assessments.							Statistical errors.					Number of holdings.			Remarks.
Total number of errors in			Results of correction of errors.				Total number of errors in								
Area of extensions.	Crop marking.	Assessment.	Increase.		Decrease.		Holding marking.	Crop marking.	Survey of interior details.	Record.	Total number of Statistical errors.	In the *kwins* inspected.	Inspected in these *kwins*.	Found correct.	
			Area.	Revenue.	Area.	Revenue.									
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			Acres.	Rs.	Acres.	Rs.									
276	5,411	17	183	452	109	254	1,083	548	10,924	1,656	14,213	725,786	26,295	18,288	
54	529	..	37	47	...	...	321	400	1,063	822	1,605	52,874	11,308	9,077	
319	640	7	23	34	1	1	83	251	766	373	1,156	18,263	4,763	3,229	
...	...	...	...	..	...	...	4	...	80	..	84	...	...	...	
85	1,604	25	365	786	36	119	974	67	3,576	675	6,492	42,888	18,159	14,831	
29	461	4	71	157	38	107	282	16	2,118	591	2,636	63,415	12,444	10,022	
292	1,299	3	163	358	33	70	201	81	2,602	192	3,076	33,886	12,039	8,615	
418	1,036	3	74	121	5	7	523	44	1,472	639	2,678	134,160	30,872	27,930	
706	1,625	34	270	1,233	55	185	212	100	4,935	1,165	6,320	28,405	12,213	7,872	
77	792	12	38	318	36	91	612	438	3,201	538	4,789	70,893	14,614	12,667	
84	161	...	492	1,440	68	255	301	2,129	7,273	582	10,285	31,322	12,449	7,369	
302	705	10	269	782	39	108	577	966	4,032	637	6,212	21,934	11,166	6,919	
278	867	28	245	810	35	97	900	51	2,862	741	4,519	17,913	6,553	4,009	
171	406	8	71	139	36	77	454	743	2,113	467	3,777	27,527	9,780	6,769	
189	152	189	92	163	13	30	514	723	10,425	300	11,962	46,447	15,972	10,646	
95	2,618	2	188	264	4	8	133	274	3,105	528	4,040	31,840	12,708	9,536	
136	136	136	91	175	6	7	235	140	2,639	537	3,546	41,687	10,758	8,426	
...	11	5	115	258	16	43	121	240	2,697	143	3,191	11,175	5,903	4,663	
880	1,134	97	1,737	3,576	889	1,027	215	304	558	964	2,041	56,224	17,338	12,678	
63	656	47	70	121	113	167	613	2,117	274	1,784	4,798	161,057	35,325	30,188	
54	632	321	108	827	208	438	24	190	216	322	956	97,245	33,981	27,366	
606	529	69	130	323	149	159	354	253	305	527	1,439	130,375	137,863	35,060	
..	...	...	..	...	1	3	1	1	37	21	60	3,127	346	287	
36	567	280	165	740	135	536	142	88	530	522	1,282	63,007	18,634	16,902	
438	3,724	307	84	72	400	273	842	464	2,782	261	4,349	22,226	9,938	6,256	
124	3,425	324	2,901	10,217	1,281	2,542	489	1,605	706	1,785	4,585	172,637	41,850	35,644	
230	2,116	...	1,586	1,519	1,546	1,341	881	951	738	2,911	5,483	190,830	39,569	32,700	
114	875	311	1,157	531	508	423	135	469	247	1,276	2,101	341,364	36,359	33,184	
16	137	2	4	17	4	19	21	114	243	247	625	15,557	4,184	3,627	
31	837	38	150	626	229	479	161	142	861	721	1,885	54,404	20,299	19,303	
27	5,276	5	3,957	10,653	1,326	1,681	192	503	579	1,111	5,099	160,208	46,497	37,859	
488	2,680	63	907	2,115	592	858	533	938	581	1,296	3,175	50,316	11,555	7,786	
361	1,711	1,674	1,887	759	605	437	1,458	1,107	1,037	2,176	5,778	122,225	36,529	31,220	
6,979	42,752	4,021	16,930	39,623	8,516	11,842	13,591	16,457	75,677	26,512	134,228	3,041,227	718,253	500,928	
7,704*	32,343*	3,397	13,813*	19,177*	4,555*	8,244*	10,967*	12,428*	77,118*	18,428*	118,590*	1,806,247*	528,426*	438,421*	

figures.
by Assistant Superintendent.
by Assistant Superintendent.
by Assistant Superintendent.
by Assistant Superintendent.

STATEMENT No. X.—*Miscellaneous Surveys by the Local Staff in* 1911-12 (Paragraph 13).

District.	Survey of Grants and Leases.						Resurveys and Extension Surveys by the Local Staff.					Holding Surveys of impermanent Island cultivation in unsurveyed tracts.				Remarks.
	Number.			Area.			Number of *kwins*.			Area Surveyed.		Number of Holdings.			Area Surveyed.	
	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed wholly or in part.	Checked by Inspector.	Checked by Superintendent.	Gross area.	Cultivated area.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Area Surveyed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Acres.	Acres.	Acres.				Sq. Mls.	Acres.				Acres.	
Akyab ...	...	...	...	...	...	...	32	32	4	23	14,161	2,242	234	...	6,266	
Kyaukpyu ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Sandoway ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rangoon Town	1,107	144	30	125	109	10	...	...	...	1	272*	...	...	...	...	*Occupied area.
Hanthawaddy	...	...	...	...	...	...	50	44	...	59	30,560	...	...	...	...	
Tharrawaddy ...	18	...	...	16	...	...	305	12	...	12	6,376	4,083	121	...	8,065	
Pegu ...	...	...	...	...	...	...	128	51	...	49	23,085	...	...	...	...	
Prome ...	...	...	...	...	...	...	20	11	...	29	6,639	2,474	66	...	4,433	
Bassein ...	62	20	...	1	1	...	63	37	2	17	9,816	...	...	...	...	
Henzada ...	...	...	...	...	...	...	22	22	10	55	27,610	...	...	...	...	
Myaungmya ...	3	33	...	·21	345·21	...	49	37	2	42	10,645	1,135	67	...	10,091	
Ma-ubin ...	3	...	...	·154	...	...	163	51	2	14	7,165	...	...	...	...	
Pyapôn ...	...	...	...	...	...	...	60	43	1	45	19,568	732·56	29	8	38	
Toungoo ...	24	1	...	118·64	84·64	...	29	10	1	23	13,143	55	5	...	210	
Thatôn ...	19	6	...	79	60	...	39	30	5	66	15,698	...	...	...	...	
Amherst ...	17	12	1	547	442	...	61	33	2	57	12,816	282	56	5	1,179	
Tavoy ...	102	78	...	1,771	334	...	27	14	4	4	2,596	...	...	...	...	
Mergui ...	18	...	...	11	...	...	9	...	...	·50	300	...	...	...	...	
Thayetmyo ...	4	3	...	22·19		22·99	131	131	84	2·32	1,120	...	...	...	...	
Pakôkku ...	...	...	...	...	...	...	...	...	...	...	...	5,009	705	15	15,212	
Minbu ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Magwe ...	...	...	...	...	...	...	517	161	17	40	2,254	1,535	1,011	153	1,331	
Mandalay Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mandalay ...	7	6	...	41	35	...	166	78	14	40	15,806	...	...	...	...	
Katha ...	290	9	10	104	2	3	89	...	...	8	1,388	1,187	101	...	1,070	
Shwebo ...	25	21	...	45	8	...	375	21	3	16	7,872	3,493	530	1,500	7,949	
Sagaing ...	8	...	...	1	...	...	2	2	2	9	5,284	6,473	1,422	125	24,876	
Lower Chindwin	...	...	...	...	...	...	...	...	...	...	...	3,072	1,169	216	8,942	
Upper Chindwin	...	...	...	...	...	...	...	...	...	...	...	781	157	126	1,119	
Kyaukse ...	...	...	...	...	...	...	29	10	2	17	7,730	...	...	...	...	
Meiktila ...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	
Yamathin ...	5	...	...	120	...	...	1	1	1	15	400	...		...	...	
Myingyan ...	...	...	...	...	...	...	...	...	...	...	...	8,298	4,735	873	20,875	
TOTAL FOR 1911-12	1,712	342	41	3,009·194	1,420·85	35·19	2,402	844	156	641·82	239,208	45,867·56	10,603	2,541	112,353	
TOTAL FOR 1910-11	2,017	347	70	4,108·736	2,678·46	808	1,718*	722	132	551	214,633	37,190	10,338	1,784	91,345	

* Revised figures.

STATEMENT No. X-A—*Area under, and Cost of, Revision Surveys*

District.	Traverse (Field).						Cadastral			
	Sub-Surveyors.	Period.	*Kwins.*	Area.	Mathematical results.		Staff.			Period.
					Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	
1	2	3	4	5	6	7	8	9	10	11
	No.	Months.	No.	Sq. Mls.	Seconds.	Links.	No.	No.	No.	Months.
Hanthawaddy	1	6	17	47·74	...	0·06	1	7	...	6
Henzada	1	6	9	24·65	...	...	1	5	...	6
Myaungmya	1*	6	...	...	...	...	1	8	...	6
Ma-ubin	1	6	2	4·00	...	...	1	5	...	6
Pyapôn	1	6	26	89·00	30	2	1	7	...	6
Toungoo	1	6	6	15·63	3	·79	1	6	...	6
Thatôn	...	...	14†	17·09	·07	·70	1	4	...	6
Amherst	...	...	...	...	...	...	1	4	...	6
TOTAL FOR 1911-12 ...	5	6	74	38·02	10·00	0·89	8	46	...	6

(by unattached Extra Surveyors only) in 1911-12 (Paragraph 14).

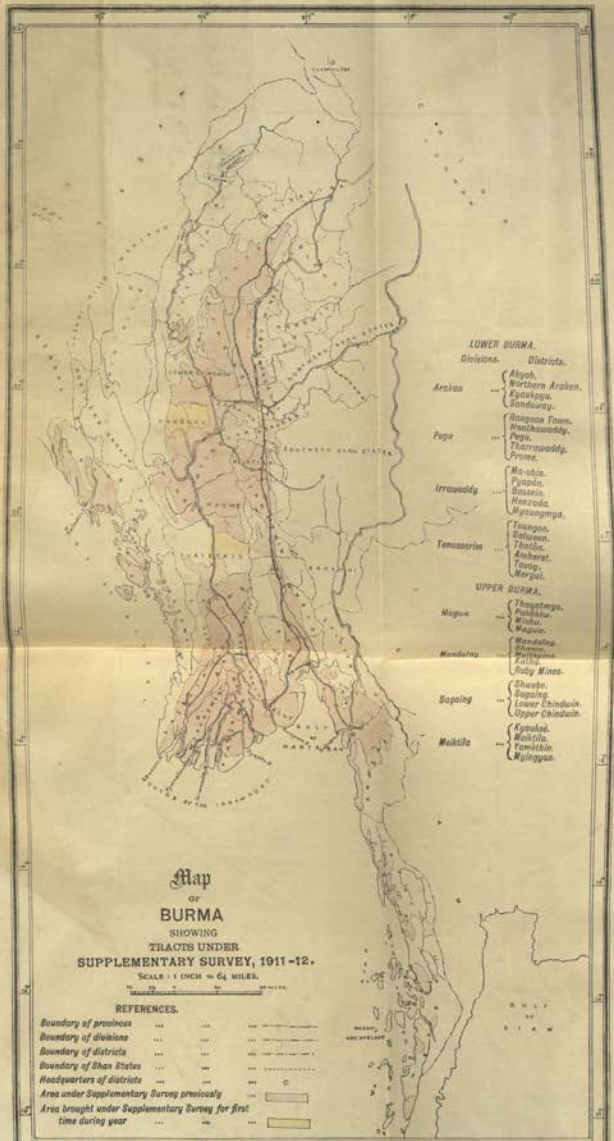
(Field).									Cadastral (Recess).		Cost (Field and Recess).			Remarks.
Kwins.		Area.		Fields.		*Kwins* holding-marked.	*Kwins* partalled.		Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	
Whole.	Part.	Gross.	Occupied.	No.	Average size.		By Superintendent.	By Inspectors.						
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
No.	No.	Sq. Mls.	Acres.		Acres.	No.	No.	No.	No.	Months.	Rs.	Rs. A.	As. P.	
31	7	90·83	42,177	50,106	·84	...	13	40	9	6	9,228	101 10	3 6	
8	1	24·65	13,374	46,710	·28	...	9	9	8	6	4,945	200 10	6 0	
25	...	55·00	35,240	48,790	·72	...	12	25	10	6	6,365	115 13	2 11	* Engaged solely on detail survey.
5	3	13·00	5,523	11,675	·48	...	5	8	7	6	4,389	337 10	12 7	
37	...	51·33	28,651	24,812	1·15	...	10	37	9	6	7,613	148 5	4 3	
21	...	38·41	15,246	40,560	·38	...	6	21	8	6	4,869	171 6	5 1	
25	...	39·85	15,100	20,136	·75	...	13	25	5	6	4,775	141 1	5 1	† Done by Inspector.
27	4	34·00	13,029	49,872	·26	...	6	31	5	6	4,335	127 8	5 4	
179	15	391·07	163,340	292,721	0·56	...	80	196	61	6	43,619	140 8	4 5	

STATEMENT XI.—*Statistics relating to Government Survey Schools, for the year* 1911-12 (Paragraph 20).

District.	Daily average number of pupils on the rolls.	Number of the days the school was in session.	Average number of days each pupil received tuition.	Number of pupils on the rolls on the 31st March.			Total income for the year.	Total expenditure for the year.					Number of pupils presented at the last examination in						Remarks.
													Surveying.		Arithmetic.		Revenue Law.		
				Pupils paying fees.	Free pupils.	Total.		On Establishment.	On Scholarships.	On prizes and bonuses.	On other contingencies.	Total.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.							
Akyab ...	10	247	307	12	...	12	152	1,104	418	46	326	1,894	12	7	8	1	9	4	
Kyaukpyu ...	12	250	208	12	1	13	155	1,259	823	43	252	2,377	11	10	11	6	11	9	
Hanthawaddy ...	13	267	348	15	...	15	449	1,110	624	...	214	1,848	14	11	11	8	12	7	
Pegu ...	16	267	295	5	9	14	171	1,152	927	81	175	2,335	14	13	14	6	11	5	
Prome ...	6	269	249	2	4	6	78	1,104	585	62	169	1,920	6	6	6	5	6	5	
Bassein ...	9	253	206	8	1	9	217	1,928	808	84	670	2,490	9	9	9	6	9	7	
Henzada ...	10	264	215	8	...	8	212	1,104	499	119	...	1,722	8	8	8	7	7	6	
Ma-ubin ...	10	259	257	4	6	10	183	1,302	662	75	118	2,157	10	9	10	4	10	9	
Toungoo ...	13	244	238	13	1	13	370	877	451	57	16	1,401	10	8	10	6	9	8	
Amherst ...	17	256	181	14	2	16	398	1,104	989	187	578	2,858	15	13	14	8	15	11	
Tavoy ...	13	219	199	13	1	13	330	998	678	45	857	2,076	13	10	13	11	13	11	
Pakôkku ...	18	247	222	6	14	20	73	964	839	153	45	2,001	19	10	19	13	18	11	
Minbu ...	29	259	230	8	25	33	99	806	1,067	230	21	2,124	33	24	32	22	31	22	
Mandalay ...	7	266	194	6	...	6	92	1,024	565	78	99	1,766	6	6	6	5	6	6	
Katha ...	11	234	124	5	5	10	98	834	884	31	51	1,750	10	5	6	4	8	6	
Shwebo ...	30	269	207	4	28	32	114	1,167	1,006	231	69	2,473	33	29	25	22	28	21	
Lower Chindwin ...	21	245	481	6	10	16	98	869	475	53	102	1,499	16	16	14	11	13	13	
Meiktila ...	29	260	234	15	6	21	216	981	1,363	119	44	2,506	21	14	19	17	21	6	
Yamèthin ...	19	261	212	11	4	15	177	807	855	80	61	1,803	14	3	14	6	14	3	
TOTAL FOR 1911-12 ..	298	255	224	165	117	282	3,682	19,792	14,367	1,774	8,067	39,000	278	215	249	163	251	172	
TOTAL FOR 1910-11...	326	260	217	194	127	321	4,303	20,752	14,592	1,904	3,129	40,377	305	203	295	212	278	116	

G. B. C. P. O.—No. 77, C. S. L. R., 1(a), 2-10-1912—303—J. T. .N

ROYAL ASIAT


LOWER BURMA.
Divisions. Districts.
Arakan ... Akyab. Northern Arakan. Kyaukpyu. Sandoway.
Pegu ... Rangoon Town. Hanthawaddy. Pegu. Tharrawaddy. Prome.
Irrawaddy ... Ma-ubin. Pyapón. Bassein. Henzada. Myaungmya.
Tenasserim ... Toungoo. Salween. Thatón. Amherst. Tavoy. Mergui.
UPPER BURMA.
Magwe ... Thayetmyo. Pakkoku. Minbu. Magwe.
Mandalay ... Mandalay. Shwebo. Myitkyina. Katha. Ruby Mines.
Sagaing ... Shwebo. Sagaing. Lower Chindwin. Upper Chindwin.
Meiktila ... Kyaukse. Meiktila. Yamethin. Myingyan.
Map
OF
BURMA
SHOWING
TRACTS UNDER
SUPPLEMENTARY SURVEY, 1911-12.
SCALE : 1 INCH = 64 MILES.
REFERENCES.
Boundary of provinces
Boundary of divisions
Boundary of districts
Boundary of Shan States
Headquarters of districts
Area under Supplementary Survey previously
Area brought under Supplementary Survey for first time during year

LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDED THE 30th JUNE 1913

RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1913

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[The maximum limit of the text of the Report is 10 pages.]

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LAND RECORDS ADMINISTRATION REPORT OF BURMA

For the year ended the 30th June 1913.

CHAPTER I.

INTRODUCTORY.

1. *Work of the year.*—The usual annual increase in the area under supplementary survey was this year replaced by a decrease amounting to some 163 square miles. This is due to the abandonment of land records work on 206 square miles of poor and sparsely cultivated lands in the Meiktila District where fixed lump sum village assessments have replaced fluctuating assessments. New settlements were introduced in Hanthawaddy (Syriam), part of Thatôn, the Shwebo canal area and Meiktila. The establishments of special unattached surveyors entertained in 1911-12 for revision surveys in eight districts were disbanded but in Akyab the special survey party dealt with extension and revision surveys covering 276 square miles with an occupied area of about 115,000 acres while the members of the local staff revised 1,126 square miles with an occupied area of 311,214 acres. Training in survey of the junior Superintendents was going on throughout the year and some charges had as in previous years to be filled by Myoôks.

The gross area in which supplementary survey was maintained was 50,254 square miles. The total cost of the department as shown in the budget after deducting settlement charges and crediting receipts was about 17 lakhs equivalent to about 5 per cent. of the revenue assessed by the department against 5⅛ per cent. in 1911-12. The causes contributing to the fall of cost rate were, a favourable agricultural season in Upper Burma, the introduction of increased settlement rates, and in urban areas the inclusion of municipal assessments and land rate in lieu of capitation tax which are assessed by the land records staff.

CHAPTER II.

SPECIAL DEMARCATION AND SURVEYS.

2. *Demarcation preliminary to Survey.*—*Nil.* Statement I.

3. *Revision Surveys by Special Staff.*—Revision surveys by unattached extra surveyors under Mr. Gibson's scheme mentioned in paragraph 14 of last year's report were closed in October 1912 owing to lack of funds. Revision and extension surveys in advance of settlement were undertaken by the special survey party in the Akyab District. Maung San Shwe, the Superintendent in charge of the party, started field-work in Akyab early in December. The season was a successful one, nearly 113,000 acres of cultivation being resurveyed in the Kyaukta w and Minbya Subdivisions giving an increase of about 6,000 acres of assessed area. The Assistant Director inspected the field-work and found it of excellent quality. The party suffered from sickness and there were some casualties but the season's programme was completed, a result creditable to Maung San Shwe and his staff. The party closed its field work towards the end of May and came into Rangoon where the recess work is being done. The cost of the survey works out to the reasonable rate of 4½ annas per acre occupied. Statement II.

4. *Extension Surveys by Special Staff.*—The special survey party under Maung San Shwe, having completed recess work on the extension surveys of Statement III.

Bassein undertaken in the previous year, took up extension surveys in Akyab in addition to the revision surveys described in the previous paragraph. The area for extension survey only amounted to about 8¼ square miles with an occupied area of 2,662 acres. The survey was based on theodolite traverses geographically connected: the Assistant Director inspected the work and found it of high quality. The cost cannot be separated from that of the revision surveys and is included in the cost rate of the previous paragraph.

A small special staff was employed in the Hanthawaddy (Syriam) District on a prismatic compass survey of the accretions to the Alangon Fuel Reserve on the Sittang estuary. About 86 square miles were surveyed at a cost of Rs. 827. Cattle are grazed on this area although eight-ninths of it are under water at high tide. The idea is to include this area in the Alangon Fuel Reserve and as a set off to throw open to cultivation part of the old reserve.

Statement IV.

5. *Town Surveys.*—For financial reasons demarcation and survey in towns had to be restricted to the survey of small areas in Rangoon Town and to a continuation of the work of redemarcating four towns in the Minbu District. In Rangoon Town a flying column disposed of detail work in two previously traversed blocks of the ex-cantonment area, in three sub-blocks of the Lanmadaw quarter, in connection with land reclamation, and in three blocks of the old Kandawgale quarter where a resurvey was necessary owing to encroachments on Government land by the railway. Besides this, traverse surveys of 1·25 square miles in three blocks of the Dala circle were undertaken. The Assistant Director inspected the fieldwork and found it first class. The cost of detailed work amounted to Re. 1-14-7 per acre. The cost of the traverse was Rs. 438 per square mile.

During the recess of 1912 mapping and area work were completed for Syriam Town, Mergui Town and five towns of the Katha District which had all been surveyed in the previous year. The work of Syriam Town was examined by the Assistant Director and was found to be in order. The Land Records officers under training completed the traverse of Yamèthin Town and the detail survey of 117 acres in Tavoy.

Statement V.

6. *Fishery Surveys.*—No new surveys were carried out but maps of fishery surveys executed in Tharrawaddy during 1911-12 were completed and sent to Press. The work was examined by the Assistant Director and was found to be of good quality.

Statement VI.

7. *Patta Surveys by Special Staff.*—During the year *patta* and lease surveys by special establishments were conducted in ten districts. The area surveyed was in Akyab 1,720 acres, in Kyaukpyu 8,970 acres and in Sandoway 325 acres, all done on piece-work and paid for at the rate of eight annas per acre recovered from the applicants. In the Insein District 1,919 acres on what is known as the Kondan ridge were surveyed for the cultivation of rubber and castor oil the cost being recovered by fees from the 12 applicants at 10½ annas per acre. In Pegu a special staff surveyed 15,368 acres along the railway line consisting of *kaing* grass jungle formerly inundated during the rains but now reclaimed by embankment. The survey was done on behalf of a number of applicants, including certain co-operative credit societies who wished to take up some 7,000 acres for *mayin* and *kaukkyi* rice cultivation. The cost is being recovered by fees at eight annas per acre. In Thatôn last year's accretion surveys were continued. The area surveyed in 10 acre blocks was 9,724 acres. Demarcation is a difficulty in this newly formed area. Fees covering the cost of survey were levied at rates varying with the size of the allotment. In the Amherst District applications for large blocks of 1,000 to 4,000 acres were received and the necessary surveys were made and were based on theodolite traverses professionally executed. Altogether 12,566 acres were surveyed, the cost of which is being recovered from the applicants. In Tavoy 3,434 acres were surveyed including two large grants for rubber cultivation. Fees at the rate of eight annas per acre were realized. In Mergui the area surveyed was 2,325 acres of which one-third was for mining purposes. The cost was recovered by fees varying with the size of the allotment and the difficulty of survey but not exceeding the standard of Re. 1-8-0 per acre laid down for this district. In Minbu 1,485 acres were surveyed in waste

areas brought under irrigation by the Môn canal. The available land was divided into suitable blocks and was allotted to *bonâ fide* cultivators. The cost amounted to Rs. 206, the staff being paid by monthly salaries. The cost is being recovered by fees.

CHAPTER III.

SUPPLEMENTARY SURVEY WORK.

8. *Rural area under Supplementary Survey.*—The rural area under supplementary survey was 205 square miles less than in the preceding year, partly as a result of urban expansion entailing the transfer of outlying suburban tracts from the rural to the town category, but mainly owing to the introduction of fixed assessments over parts of the Meiktila District and the consequent exclusion of 206 square miles from the scope of land records work. Notwithstanding this fall in gross area the occupied, cultivated and assessed areas were respectively 158,755, 494,830 and 792,399 acres larger than in 1911-12. These figures are explained by the excellence of the season which was marked by an absence of floods in Lower Burma and in the dry zone by a rainfall very beneficial to upland crops. Correspondingly the rural assessment increased by more than 24 lakhs and aggregated Rs. 3,15,79,905. Factors in this growth, apart from the favourable season, were the enhanced assessment rates following new settlements in Hanthawaddy and parts of Thatôn, the substitution of full for intermediate rates in parts of Pyapôn, Ma-ubin and Kyaukse, and the extension of irrigation in Minbu The failure of cultivation and revenue in Amherst to expand in accordance with the better conditions prevailing is noteworthy and is ascribed to the poor character of the waste in the Kawkareik Subdivision and the abandonment of inferior land recently occupied. Statement VII, columns 2—7.

9. *Supplementary Survey in Towns.*—Normal urban expansion accounts for the additional 9 square miles over which town supplementary survey was introduced in the year of report. There was a corresponding growth of 2,779 acres in the occupied area which now amounts to 95,651 acres. The aggregate town assessments credited to Government amounted to Rs. 10,29,131, which is Rs. 1,21,084 more than in 1911-12. But the figures are not properly comparable, for in the preceding year no account was taken of land rate in lieu of capitation tax, the assessment rolls of which are prepared by revenue surveyors. Again this year for the first time notice has been taken of the municipal assessments on covered and uncovered areas which are levied by the agency of the Land Records Department, and which in the year of report aggregated Rs. 4,64,868. Statement VII, columns 8—14.

10. *Cost of the Supplementary Survey Staff.*—The total cost of supplementary survey was Rs. 15,48,321, being Rs. 18,667 less than in the previous year; nominal additions, mostly due to the death or retirement of *taik-thugyis*, were made to the staffs of several Lower Burma districts, but the amount paid in surveyors' salaries was Rs. 32,777 less than in 1911-12 when the coronation bonus was granted. On the other hand Rs. 10,541 more were spent in contingencies, partly in the supply of grazing ground demarcation posts, partly in the protection of survey marks in towns and partly in the purchase of mathematical instruments for the survey instruction camp. In the final result there was a large fall in the cost of the department from 5·20 per cent. of the total assessment to 4·68, in consequence of the increase in rural and urban revenue discussed in paragraphs 8 and 9 above. Statement VIII, columns 13—15 and 20.

11. *The Preparation and Submission of Assessment Rolls.*—In most districts substantial punctuality in the submission of assessment rolls was attained. Delay in Hanthawaddy is attributed to the difficulties of introducing a new settlement, and in Minbu to the outbreak of malaria which incapacitated many members of the staff. The considerable delays in Magwe both at the *kaukyin* and the *kaukkyi* seasons are not adequately explained in the district report. The late submission in Kyaukse is ascribed to the intricate nature of the assessment work but the Divisional Commissioner doubts whether the methods employed

are even now not unnecessarily elaborate. Many districts note that the preparation of a duplicate assessment roll serves little purpose and loses time. The question is under the consideration of the Financial Commissioner.

Statement IX, columns 3, 6, 9, 10, 13, 19 and 21.

12. *Inspection of Supplementary Survey fieldwork.*—Deputy Commissioners inspected 77 *kwins* more than in 1911-12, but four officers, Colonel Cronin, Mr. Williamson, Mr. Lowry and Captain Roberts account for 152 *kwins* out of a total of 282. Major Bowen did considerable inspection outside settled tracts. Both Subdivisional and Township Officers did more inspection and among the former Messrs. Doyle, Barclay and Baretto, Maung Myat Tha Gyaw, K.S.M., T.D.M., Maung Po Te (2), K.S.M., A.T.M., Maung Po Kyu, K.S.M., A.T.M., Maung Ba Thu, and Maung Paw Shan deserve mention, and among Township Officers Maung Po Saing (2), Maung Kyaw Gaung, Maung Gyi (13), Maung Thi Han, Maung Thet Tun, Maung Ba Gyi, Maung Maung Gyi, and Maung Maung (6). In Thayetmyo, Minbu and Magwe as in Mandalay and Katha more might reasonably be expected from Township Officers. Inspections done by these officers are too often poor in quality and ill-directed. As the Deputy Commissioner, Lower Chindwin remarks, they "forget that they can do most good by going for failures and fallows. Their object should be to safeguard the revenue." To remedy such defects an instruction class was held in Yamèthin at which all district officers attended. This, as the Divisional Commissioner notes, was a most successful measure.

Superintendents of Land Records inspected 141 *kwins* more than in the preceding year, Maung On Pe again heading the list. The amount of inspection done in Tharrawaddy by Mr. Swiney was inadequate. In Yamèthin the number of *kwins* visited was small but Mr. DeSouza's inspections were of very good quality. In Shwebo, Sagaing and the Lower Chindwin Messrs. Powell, Korper and Nolan exercised a useful and extensive supervision. Among junior officers the work of Mr. C. E. L'Estrange and Mr. Barber promises well.

The average number of *kwins* checked by Inspectors was 105 as against 108 in 1911-12. More should have been done in Thayetmyo. In Rangoon Town the number of blocks visited is too small.

The result of all inspection done was an increase in revenue of Rs. 18,169. The errors discovered in Magwe and Myingyan were astonishingly few. Considerable frauds were detected in Pakôkku, the Lower Chindwin and Shwebo. There is, however, reason for believing that fraudulent crop-marking is now less prevalent over the dry zone.

Statement X.

13. *Miscellaneous Surveys by the Local Staff.*—The survey of new grants and leases is now mostly confined to towns: the area surveyed was much the same as in 1911-12. But the amount of resurvey reported as done by the local staffs in rural areas of Lower Burma exceeded the area returned last year by as much as 72,006 acres. The Prome, Tavoy and Mergui returns remain disappointing. Only two districts, Akyab and Thatôn, succeeded in working up to the standard of 400 acres per surveyor. The Thatôn return is the better of the two for it does not take into account work which when checked was found scamped, whereas the Akyab figures include all areas returned by the surveyors although it has been ascertained that in at least four charges the resurvey was carried out in office. Superintendents in too many districts are not sufficiently alive to the necessity of checking revision survey: in Tharrawaddy, Bassein, and Toungoo no partalling at all was done by them, and very little in Pyapôn.

In the dry zone, as in Lower Burma, there was an increase in the amount of resurvey performed. Sagaing and Mandalay did well in carrying out the revision of over 12,000 and 16,000 acres. Two training camps for the instruction of surveyors were held in Yamèthin by the Superintendent, Mr. F. A. DeSouza—a measure which should bear good fruit next year. In notable contrast to these two districts are the Pakôkku, Lower Chindwin, Meiktila and Myingyan returns all of which are blank, though in some of these districts at least it is admitted that large areas exist which require resurvey. It is alleged that the whole time of the surveyors in these districts is taken up by their assessment duties; if so, it is difficult

to understand how in other districts where conditions are similar, a creditable output of resurvey is achieved. The area of impermanent island cultivation surveyed exceeded 150,000 acres and was 38,000 acres more than in 1911-12. But most of the increase is nominal, the result of including the Henzada figures, which were omitted from the report last year.

Recess work was duly completed in the rains by the temporary staffs entertained under Mr. Gibson's scheme for the eight districts in which field work had been done. The mapping and preparation of area statements were inspected by the Assistant Director and found in order. Owing to lack of funds the establishments were disbanded at the end of October.

14. *Scheme for future Revision Surveys.*—The programmes of resurvey required within the next three years are still in many instances compiled on incorrect lines. Such programmes should exhibit the amount of resurvey which it is contemplated the local staff will carry out *in each of the three years*. Only when the amount is more than the local staff can cope with should the entertainment of a special staff be considered. As the establishments entertained last year under Mr. Gibson's scheme have been disbanded, account should be taken in future programmes of the *kwins* which that scheme comprised. At present there are no less than nine districts, seven in Lower and two in Upper Burma, in which, as it is reported, the arrears of survey cannot be cleared off without a special staff. But in some of these the output demanded from the local staff is insufficient; for example in Myingyan the revenue surveyors are not expected to do any resurvey at all. Such programmes should be revised. In Meiktila it is reported that no areas required survey. This should be verified.

15. *Preservation of Permanent Survey and Boundary Marks.*—District reports, Amherst and Toungoo excepted, indicate that as a whole headmen are now taking a more active interest in the protection of survey marks in rural areas. Deputy Commissioners, however, while recognizing this are inclined to doubt the accuracy of many of the annual reports which are submitted on the condition of marks, and in Bassein and Thatôn some reports were proved to have been fudged. In Akyab and Myingyan action was taken to punish headmen who were remiss. In Thayetmyo headmen were by inadvertence not called on to submit reports this year. In Meiktila it has been arranged that in the areas where land records work has been abandoned surveyors will visit year by year one-fifth of the marks to ascertain whether the headmen are duly seeing to their preservation.

Except in Henzada, Thayetmyo and Yamèthin little was done during the year to permanently preserve survey marks in towns. In Minbu where all the marks have been protected it is found that the masonry work is crumbling away. During the year the Local Government passed orders that the protection of marks in towns was in future to be a charge on provincial and not municipal revenues except where a special financial settlement has been made with a municipality.

Many reports make no mention of the steps taken to preserve holding boundary marks which have been put down under the Boundaries Act. There can be no doubt that these marks are too frequently neglected by the surveyors. The duty of maintaining them rests on the landowner and where the marks are broken or lost the surveyors should report so that the marks may be replaced at his expense. In Mandalay, under a scheme of work drawn up by the Registrar of Town Lots, all missing marks will be replaced in the next three years.

16. *Inspection of Supplementary Survey Recess Work.*—In Insein Mr. Haddock inspected the office of every surveyor, but in too many districts, and more especially in Sandoway, Hanthawaddy, Tharrawaddy and Magwe, Superintendents did not inspect an adequate number during the recess. In Lower Burma Inspectors as a rule visit all offices twice or even thrice during the rains. In Upper Burma where the recess is short such frequent inspection cannot be looked for, but most offices were visited at least once. In Myingyan, however, two Inspectors failed altogether, visiting only one office apiece in the whole year. More information should have been given in the Pakôkku, Magwe and Shwebo reports which do not disclose the extent of the Inspectors' check. In Ma-ubin the Deputy

Commissioner visited as many as thirty offices and some inspection was also done by the Deputy Commissioner, Kyauksè.

17. *Miscellaneous duties of the Land Records Staff.*—(*a*) In Pegu, Prome, Bassein, Toungoo and Thatôn, Superintendents failed to make any check of measurements outside supplementary survey. In Toungoo careful inspection brought to light under-measurements to the extent of 1,000 acres and in Thayetmyo numerous omissions were again detected. The revenue demand on unsettled areas in the latter district amounted to Rs. 1,28,672.

Assessment outside supplementary survey.

(*b*) In Kyaukpyu, Henzada, Ma-ubin and Yamèthin fraudulent alterations of tax-tickets were detected. In most other districts few errors were discovered and these merely clerical. The largest number of mistakes was found in Sagaing and the Lower Chindwin. In Bassein the amount of checking done was insufficient.

Check of tax-tickets.

(*c*) Considerable progress was made with the demarcation of new and the redemarcation of old grazing-grounds in Akyab, Sandoway, Tharrawaddy, Ma-ubin and Pyapôn. In Akyab angle iron posts were employed, in the other districts reinforced concrete pillars. In Thatôn nothing has yet been done to replace the old wooden posts by these pillars, while in Hanthawaddy and Amherst the substitution which is gradually being made was suspended for want of funds.

Demarcation of grazing-grounds.

(*d*) Experience as regards the reporting by cultivators of transfers of land is not uniform but as a whole is encouraging. Slackness is still prevalent in Sandoway and Prome, but in Insein, Hanthawaddy, Pyapôn and Toungoo an improvement has been noticed. In many Upper Burma districts the record of ownership and mortgage is rapidly becoming obsolete. In such districts it would be well if, in addition to punishing in future all failures to report by fine, a general notice were issued, as has been done in Minbu, stating that the revenue surveyor would visit every village on a fixed day and requiring that all necessary reports however belated should then be furnished to him so that the record may be brought up to date.

Reporting of transfers.

Sub-Registrars and Civil Courts usually furnish memoranda of transfers to the surveyors, but this has not hitherto been regularly done in Magwe or in the Ôktwin Township of Toungoo. It was decided during the year that when a transaction has been registered it is unnecessary to press for a direct report to the surveyor. It has, however, been found in Amherst that the memoranda furnished to surveyors are of little utility, being written in English and referring to an old holding number and not to the number of the current year.

(*e*) The prescribed lists of unauthorized transfers were not compiled in Sandoway, Kyaukpyu, Pegu, Bassein or Prome. In Tharrawaddy the list comprised six transfers only and it seems doubtful whether it was made on correct lines. In the Insein District it is feared that squatters report sales as mortgages without possession until a landholders' status has accrued.

Lists of unauthorized transfers.

(*f*) In Minbu the survey of over 100 miles of Public Works Department roads was carried out under the supervision of the Superintendent of Land Records. Most reports are silent as to what is being done to detect encroachments on demarcated public roads both in urban and rural areas. It is to be hoped that this important matter is not being overlooked; the rigorous action which is being taken in Mandalay Town should be adopted everywhere. In Mergui and Tavoy the time of the Superintendents was much occupied by work in connection with the issue of mining leases.

Miscellaneous.

(*g*) In the Bassein District a special officer was posted to assist the Superintendent with the preparation of revised area statements and maps required for the two Settlement Parties working in the district. The area statements were very carelessly prepared and the officers responsible have been called upon for explanations.

18. *The condition of Land Records Offices and Record-rooms.*—The offices and record-rooms of twenty-seven districts were inspected by the Commissioner of Settlements and his assistants during the year. The Deputy Commissioners of Insein, Pegu and Ma-ubin inspected their land records offices or record-rooms. The arrangement of the records was found to be unsatisfactory at Mergui, Thayetmyo and Minbu. In the last named district, however, the Superintendent, Mr. R. S. Carrapiett, has effected a considerable improvement in this as in other branches of land records work.

19. *Conduct of the Subordinate Land Records Staff.*—Three Inspectors and forty-five surveyors were dismissed and three Inspectors and fifty-two surveyors were reduced during the year. It was found necessary to take drastic action against the staff in Akyab, Thatôn, Thayetmyo, Minbu, Shwebo and Yamèthin. In the last named district a surveyor was prosecuted for what seemed clearly to be fraudulent failure marking, but the Court held that he had acted honestly within the limits of the wide discretion allowed him.

One Inspector Maung Ba Aung who had done good work while acting in a Land Records district charge was appointed to the Subordinate Civil Service.

CHAPTER IV.

TRAINING OF OFFICERS.

20. *Survey Schools.*—The number of survey schools stands at 19 as in the previous year, but proposals for closing the Prome school and for placing the Insein school under the control of the Headmaster of the Government School of Engineering at Insein were discussed. The transfer of control has been sanctioned and will take effect in 1913-14. The scholars from Prome will be provided for in the Insein school. The question of moving the Kyaukpyu school to Sandoway where health conditions are more suitable requires consideration. Statement XI.

The total number of pupils on the rolls at the close of the school term in March 1913 was 314 of which 60 per cent. paid fees. These figures show improvements both in attendance and in the proportion of paying students. The best attended schools were those of Minbu, Meiktila and Shwebo. The schools with the smallest attendance were Prome and Tavoy. Only 15 per cent. of the pupils admitted held seventh standard certificates. The low standard of education amongst the pupils is a matter for regret especially as endeavours are being made to insist upon a seventh standard qualification for the inspectors. The demand for qualified surveyors remains good, though in some districts reservists have to wait a long time for permanent appointments in the Land Records Department.

Scholarships which are now of the uniform value of Rs. 10 a month, tenable for one year from the 1st May, were allotted to the number of 140. The cost of the survey schools was Rs. 39,827 against an income of Rs. 4,071 thus making the nett cost Rs. 35,756. Calculated on the daily average attendance the cost per pupil was Rs. 106 but if based on the attendance at the close of the course or on successful results the cost is much higher than this.

The results obtained at the Syndicate examinations were not as good as in the previous year. Candidates who qualified in surveying numbered 234, in arithmetic 200 and in revenue law 163. This gives the percentages of passes to candidates as 77, 71 and 60 respectively. The schools of Upper Burma taken all round were more successful than those of Lower Burma. The "Clancey" medal for proficiency in surveying was won by a pupil of the Shwebo school. The teachers as a class are competent and have, with few exceptions, worked creditably, more especially those of Shwebo, Mandalay and Katha. Those whose work has been unsatisfactory belong to Akyab and Prome. The latter will be superannuated in October 1913.

All but three of the schools were inspected by one or other of the administrative officers.

Generally speaking field work is well practised and book work receives due attention. The schools were periodically visited by the local Superintendents

but the Akyab and Bassein schools should have received closer supervision. The Deputy Commissioners of Pegu and Ma-ubin inspected their schools.

21. *The Training of Apprentices.*—The prescribed examination of apprentices was not held in Akyab, Rangoon and Mergui. Except in Akyab no good reasons are adduced to explain the Superintendents' failure. In other districts out of 211 candidates 129 passed and became entitled to receive certificates of proficiency. It is satisfactory that the examination standard is not set too low, but on the other hand the large number of failures must to some extent be attributed to the slackness of Inspectors in not supervising adequately the training of the apprentices attached to their circles.

22. *The Qualifications and Training of the Subordinate Staff.*—The preliminary training which it is very important should be given at the opening of the field season, was not carried out in Tharrawaddy and Magwe and it seems probable that the Prome, Bassein and Toungoo Districts were also at fault but the reports are not explicit. Insufficient attention is as a rule given to training in the theodolite and the value of this is not adequately recognized, though Sagaing is a notable exception. In Yamèthin as has been noted above two camps were formed for the instruction of surveyors in the survey of large areas as was done in the preceding year also.

23. *Training of Junior Officers and Probationer Assistants.*—Mr. C. S. Littlewood on deputation from the Survey of India Department was Survey Instructor during the year. The system of training followed was so far as possible that adopted in the previous year. The system provided for the training of (*a*) Junior Land Records officers who joined prior to the introduction of the appointment and training rules of Chapters II-E and III-E of the Land Records Manual and (*b*) Probationer Assistant Superintendents appointed under those rules. The Instructor's duties were to give a training in observations, computations and theoretical and practical work relating to traverse and cadastral survey. For practical instruction in topographical work the officers in class (*a*) who may be termed regular officers were during the field season to spend about two months of their course in the camps of one of the Topographical Survey Parties. These regular officers were to join the Instructor in batches as they could be spared from their regular duties and were to have nine months' training. The probationers after leaving the Dehra Dun Survey School were to take up under the Instructor the second year's training contemplated by paragraph 113 (ii) of the Land Records Manual.

Three regular officers forming the first batch completed their training in the previous year. When the year opened in July 1912 four regular officers of the second batch (Messrs. C. F. Cooper, A. P. Nolan, A. P. P. L'Estrange and H. R. K. Littlewood) and one Probationer (Mr. C. H. Delmege) were under training with the Instructor at Yamèthin. As mentioned in the Report for 1911-12 one regular officer (Mr. W. H. F. Fforde) of the second batch had, owing to ill health, failed to complete his training.

In July plotting and computation in connection with work done in the previous field season was going on and at the end of the month the four regular officers finished their course and returned to their ordinary duties. They were succeeded by the third batch of regular officers consisting of Messrs. W. S. O'Hara, E. T. W. Skinner, C. H. O'Hara and O. Thomas. The camp remained at Yamèthin till October 1912. During this time the course which included observations and the traversing of part of Yamèthin Town was seriously interrupted as two regular officers and the probationer had to go to Kasauli for treatment against dog bite. At the end of October the probationer completed his second year's course. The training camp moved to Tavoy in November 1912. At Tavoy the camp was joined by the fourth and last batch of regular officers consisting of Messrs. D. Carey, W. M. B. Smart and F. H. O'Donel. Two newly appointed probationers (Messrs. L. Kong Mein and P. L. Nicholas) were also posted to the camp. These two recruits were to have gone to Dehra Dun for their first year's course but as that school had been closed they were sent to the Instructor for their preliminary training. Under the Instructor, training was given in traversing

and detail 64″ urban survey and in 16″ rural surveys. During the dry season the regular officers of the third and fourth batches, while undergoing their nine months' course with the Instructor, put in the periods of topographical survey training mentioned earlier in this paragraph. The instruction in topographical work was given by a special officer deputed from No. 11 Party. The average amount done by each of the Land Records officers was 5½ square miles on the 2″ scale. One regular officer, Mr. F. H. O'Donel, went on leave in December 1912 without completing the course. He has since been removed. The four officers of the third batch completed their course in April 1913 and returned to their regular duties. In June 1913 at the close of the year two regular officers of the fourth batch and two probationers were under training at Tavoy. A month later the Instructor's period of deputation came to an end, the officers of the fourth batch completed their course, and the two probationers were transferred for training to No. 10 Survey Party at Maymyo. The training camp while at Yamèthin during the rains and at Tavoy during the dry weather was visited by the Assistant Director who found the training to be proceeding satisfactorily. Most of the officers who went through the course have been certified by the Instructor to have made good use of their training and to be fairly proficient. In Mr. C. S. Littlewood the Land Records Department secured a skilful and efficient Instructor whose duties were onerous and important. While still attached to his Survey of India Party and afterwards while on deputation Mr. C. S. Littlewood trained fifteen regular officers and twelve probationers.

24. *Training of Civil Officers in Survey and Land Records work.*—Seven officers from the Commission, three Extra Assistant Commissioners and twenty-eight Myoôks were trained in Survey and Land Records work during the year.

CHAPTER V.

ADMINISTRATION AND GENERAL.

25. *Gazetted Staff.*—The appointment of Commissioner of Settlements and Land Records was held by Mr. H. M. S. Mathews, C.S.I., throughout the year. Mr. T. Couper, I.C.S., was Deputy Director throughout the year also. Mr. J. C. Clancey, I.S.O., held the post of Assistant Director till the 6th June 1913 when he was permitted to retire from the service of Government and was relieved by Mr. J. Haddock, Superintendent of Land Records, 2nd grade. By Mr. Clancey's retirement Government has lost an able, energetic and faithful officer, while the loss to the department in which Mr. Clancey served so long and which he watched over so devotedly is doubly great. To his initiative is due much of the present Land Records system especially in respect of departmental surveys and in the training of the staff which has to carry out those surveys.

The cadre of the superior Land Records service was one short of full strength when the year opened, but four of the junior superintendents were then under survey training and the strain on the department did not lessen till towards the close of the year. Death removed two of the Superintendents: Mr. D. O'Hara died in February 1913 and Mr. O. Thomas succumbed to black water fever in the following June. Promotion was suspended in the case of two Superintendents, and one Assistant Superintendent was removed from the service for failing to pass his Departmental Examination. Five officers were on long leave during the year (Messrs. P. Beechey, Kyi O, Do Kaing, B. F. Cooper and W. H. F. Fforde) and one (Mr. F. G. Paul) was transferred to the Provincial Civil Service in October 1912. To fill vacancies temporarily the services of five Myoôks, permanent and officiating, were requisitioned. One of these, Maung On Pe, who had shown special ability while acting as Superintendent for several years was appointed to the Department as 6th grade Superintendent. The others returned to their substantive appointments when the officers under survey training resumed their posts. Two Probationer Assistant Superintendents were appointed in November 1912 and joined the survey training camp. Nominations for filling three other vacancies were made before the close of the year. With these five new appointments the department will again be up to its full strength.

26. *Replacement of Taik-thugyis by Revenue Surveyors.*—Death and retirements among Circle *Thugyis* have now reduced the number of these officials to 90. Towards the close of the year the Deputy Commissioner, Amherst, submitted proposals to relieve all his remaining circle *thugyis* of responsibility for the upkeep of supplementary survey.

27. *Famine.*—Agricultural conditions were favourable throughout the year and no special relief measures were found necessary. Owing to the state of the export market, prices of food grains were abnormally high during the first half of the year and it was feared that the poorer classes, especially in parts of the dry zone, would not be able to obtain their supplies. For some time the pinch was severely felt but a good harvest and a substantial drop in prices removed all causes of anxiety. Agricultural advances were freely given.

The analyses of districts were not revised except in Minbu where further expansion in irrigation effected a great change in local conditions.

28. *General.*—Owing to extension of irrigation the rice crop of Upper Burma now adds substantially to the available food supply of the country and to gauge this supply, forecasts of the rice crops are to be furnished by the districts of Minbu, Mandalay, Katha, Shwebo, Kyauksè and Yamèthin. There will thus be twenty-two districts submitting regular forecasts while for the remaining sixteen districts where the rice crop is unimportant, conventional forecasts will be framed. The cotton and ground-nut forecasts were examined in the light of information obtained from export returns and from ginning and crushing mills. The examination indicated that the cotton forecasts had been below the mark but did not help as regards ground-nut forecasts. In the Land Records Manual the instructions in Chapter X-E about reports of land alienations were revised. In Chapter XI the responsibilities of the local staff in the matter of revision surveys and the conditions under which special establishments for such resurveys are justified have been more clearly set out. Appendix D of the Manual has also been revised so as to show the use made of the prescribed forms. A statement of Land Tenures for the Red-Letter Chapter of the General Administration Report for the year 1911-12 was prepared. In October 1912 a conference under the presidency of the Financial Commissioner considered the present system of Land Records work and made various suggestions for improvement and simplification. Orders on these suggestions have not yet issued. The system mentioned at the close of last year's report under which it was proposed to reproduce by mechanical process on the *kwin* maps, the soil class boundaries and symbols, was approved.

H. M. S. MATHEWS,

Commissioner of Settlements and Land Records,

RANGOON, *15th September 1913.* *Burma.*

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STATEMENT No. I.—*Area under, and cost of, Demarcation preliminary to Original Cadastral Survey outside towns in 1912-13* (Paragraph 2).

Nil.

STATEMENT No. II.—*Area under, and cost of, Revision Surveys by Special Staff only, in 1912-13* (Paragraph 3).

District.	Traverse (Field).						Cadastral (Field).														Cadastral (Recess).		Cost (Field and Recess).			Remarks.
					Mathematical results.		Staff.				*Kwins.*		Area.		Fields.			*Kwins* partialled.								
	Sub-Surveyors.	Period.	*Kwins.*	Area.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Whole.	Part.	Gross.	Occupied.	No.	Average size.	*Kwins* holding marked.	By Superintendent.	By Inspectors.	Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile, gross.	Per occupied acre.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	No.	Mths.	No.	Sq. Mls.	Seconds	Links.	No.	No.	No.	Mths.	No.	No.	Sq. Mls.	Acres.		Acs.	No.	No.	No.	No.	Mths.	Rs.	Rs. A.	Rs. A.	
Akyab ...	4	6	107	...	·08	·017	4	24	...	6	162	...	268	112,836	264,700	·42	...	64	150	31	6	33,087	119 11	0 4	
TOTAL FOR 1912-13.	4	6	107	...	·08	·017	4	24	...	6	162	...	268	112,836	264,700	·42	...	64	150	31	6	33,087	119 11	0 4	
TOTAL FOR 1911-12.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

STATEMENT No. III.—*Area under, and cost of, Extension Surveys by Special Staff only, in 1912-13* (Paragraph 4).

District.	Traverse (Field).							Cadastral (Field).												Cadastral (Recess).		Cost (Field and Recess).			Remarks.
						Mathematical results.		Staff.					Area.		Fields.			*Kwins* partialled.							
	Sub-Surveyors.	Period.	*Kwins.*	Area.	Azimuths observed.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	*Kwins.*	Gross.	Occupied.	No.	Average size.	*Kwins* holding marked.	By Superintendent.	By Inspectors.	Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile, gross.	Per occupied acre.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	No.	Mths.	No.	Acres.	No.	Scs.dcs.	Lks.dcs.	No.	No.	No.	Mths.	No.	Sq. mls.	Acres.		Acs.dcs.	No.	No	No.	No.	Mths.	Rs.	Rs. A.	Rs. A.	
Akyab ...	...	...	...	...	...	....	...	....	...	...	...	12	8·38	3,662	30,580	·17	...	6	12	...	...	...	...	...	
TOTAL FOR 1912-13.	...	...	...	...	...	...	...	...	...	...	...	12	8·38	3,662	30,580	·17	...	6	12	...	...	...	...	...	
TOTAL FOR 1911-12.	2	5	53	16,823	9	1·22	0·053	2	10	2	9	33	26·21	17,347	43,923	·35	...	27	33	7	6	8,495	230 12	7 10	Cost included in cost entered in Statement II.

STATEMENT No. IV.—*Area under, and cost of, Demarcation and Survey of Town Lands in 1912-13* (Paragraph 5).

District.	Demarcation.					Survey.											Cost (Field and Recess).
						Traverse (Field).				Cadastral (Field).					Recess.		
	Demarcation Officers.	Period.	Towns.	Area.	Cost.	Sub-Surveyors.	Period.	Towns.	Area.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Towns.	Area.	Inspectors, Draughtsmen and Computors.	Period.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		Months.		Sq. miles.	Rs.		Months.		Sq. miles.				Months.		Sq. miles.		M ths	Rs.
Rangoon Town ...	...	...	...	...	...	1	3	1	2	...	2	...	4	1	0·35	2	...	2,875
Minbu	2	4	1	3	753	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL FOR 1912-13 ...	3	4	1	3	753	1	3	1	2	..	2	...	1	1	0·35	2	5	2,875
TOTAL FOR 1911-12 ...	4	11-6	11	8·03	4,067	7	2-3	5	5	3	16	...	2-6	11	6-17	25	2-3	14,249

STATEMENT No. V.—*Area under, and cost of, Demarcation and Survey of Fisheries by Special Staff only, in 1912-13* (Paragraph 6).

Nil.

STATEMENT No. VI.—*Area under, and cost of,* Patta *Surveys by Special Staff only, in 1912-13* (Paragraph 7).

District.	Special *Patta* Myoôks.							Survey.										Plots checked.				Remarks.
			Grant Cases					Staff.			*Patta*.				Fees.		Cost.		By Superintendent.		By Inspector.	
			For disposal.		Disposed of						For Survey.		Surveyed.									
	No.	Period.	No.	Area.	No.	Area.	Cost.	Inspectors.	Surveyors.	Period.	No.	Area.	No.	Area.	Rate per acre.	Amount realized.	Contract system.	Regular pay.	No.	Area.	No.	Area.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
		M.		Acres.		Acres.	Rs.	No.	No.	M.		Acres.		Acres.	A. P.	Rs.	Rs.	Rs.		Acres.		Acres.	
Akyab	...	...	...	...	...	...	...	...	4	6	96	1,807	92	1,720	8 0	862	862	...	...	...	4	908	
Kyaukpyu ...	...	...	...	...	...	...	...	4	5	7	447	9,076	434	8,873	8 0	4,442	4,485	...	12	80	170	2,975	
Sandoway ...	...	...	...	...	...	...	...	...	3	11	54	925	54	925	8 0	249	273*	...	...	...	19	126	* Includes payment for previous year's survey.
Insein	...	...	...	...	...	...	...	...	12	...	12	1,919	12	1,919	10 6	1,258	1,258	...	4	981	4	779	
Pegu	...	...	...	...	...	...	...	1	7	6	439	15,368	439	15,368	8 0	4,411	...	2,735	...	...	187	4,685	In three large blocks aggregating 8,697 acres, the demarcation of boundaries were checked by Inspectors also.
Thatôn	1	3	845	8,450	582	5,820	672	1	7‡	5 & 6	1,038	9,785	1,033	9,794	4 to 8	4,931	1,910	1,160§	83	830	205	1,721	‡ Includes three surveyors employed on piece work. § Cost of special *Patta* Survey Establishment of one Inspector and four Surveyors.
Amherst	...	...	...	...	...	...	...	...	7	9	19	11,195	19	12,566	2 to 8	2,051	645‖	...	...	...	14	181	‖ Includes Rs. 307 payment for areas surveyed last year.
Tavoy	...	...	...	...	...	...	...	...	2	6	103	3,434	103	3,434	8 0	1,752	1,752	...	...	...	89	287	
Mergui	...	...	...	...	...	...	...	...	6	7	249	2,623	272	2,925	8 to Re. 1-8	2,977	1,192¶	...	...	...	36	323	¶ Excludes Rs. 1,785 paid on account of previous year's surveys.
Minbu	...	...	...	...	...	...	...	...	1	3	247	1,523	242	1,485	8 0	35	...	209	...	...	169	960	
Total for 1912-13 ...	1	3	845	8,450	582	5,820	672	6	54	3—11	2,557	57,054	2,758	57,936	0 2 to 1 8	22,418	11,647	4,101	99	1,871	888	12,394	
Total for 1911-12 ...	...	...	...	...	...	...	...	...	63	1—11	1,410	31,474	1,329	28,991	0 2 to 1 8	12,437	10,407	651	27	1,445	16	3,081	

STATEMENT No. VII.—*Area under Supplementary*

District.	Supplementary Survey in Rural Areas.					
	No. of *Kwins*.	Total area.				Total assessment (including cess in Lower Burma) on the area in column 4.
		Under Supplementary Survey.	Under occupation.	Under cultivation.	Under assessment.	
1	2	3	4	5	6	7
	No.	Sq. Miles.	Acres.	Acres.	Acres.	Rs.
Akyab	1,242	2,078	702,514	611,232	701,025	19,53,719
Kyaukpyu	792	814	178,751	169,565	173,137	2,98,713
Sandoway	291	268	58,157	55,453	57,253	1,09,864
Rangoon Town	...	...	...	...	...	...
Insein	1,113	1,328	536,380	504,801	530,597	15,73,929
Hanthawaddy (Syriam) ...	898	1,627	824,272	809,063	808,738	31,29,438
Tharrawaddy	599	1,264	492,304	465,592	492,304	13,38,458
Pegu	1,204	2,022	768,839	742,048	768,321	20,60,947
Prome	1,026	1,714	366,836	352,109	366,737	6,68,657
Bassein	1,269	2,216	721,469	665,235	717,436	17,38,164
Henzada	849	1,793	574,359	581,253	573,957	15,10,321
Myaungmya	1,069	1,816	659,539	617,034	659,218	21,77,360
Ma-ubin	592	1,643	452,985	425,399	448,767	15,69,677
Pyapôn	843	1,284	639,918	617,986	639,916	21,04,881
Toungoo	772	1,470	420,216	389,766	406,180	8,88,631
Thatôn	1,705	2,390	698,289	652,525	692,546	15,66,361
Amherst	1,232	1,738	494,487	441,735	488,959	9,75,442
Tavoy	486	460	122,797	115,958	121,525	3,18,027
Mergui	638	588	95,543	86,863	91,620	2,65,352
Thayetmyo	711	1,229	166,956	132,578	131,026	2,08,617
Pakkôku	1,892	1,683	742,001	444,999	419,190	4,80,048
Minbu	877	1,418	455,624	254,732	227,509	6,86,211
Magwe	2,121	2,717	950,525	409,838	369,993	4,16,277
Mandalay Town	12	9	4,685	3,751	3,527	18,110
Mandalay	760	688	254,927	175,229	167,234	8,38,189
Katha	1,953	1,084	197,801	167,865	162,862	2,16,744
Shwebo	3,649	3,680	1,620,373	555,218	460,078	11,52,472
Sagaing	1,178	1,822	749,321	488,961	454,443	4,74,857
Lower Chindwin	1,606	2,540	783,295	487,459	432,738	4,20,246
Upper Chindwin	188	108	41,121	31,403	30,638	36,583
Kyauksè	642	567	255,745	178,989	159,863	8,32,876
Meiktila	1,744	1,403	622,215	382,255	341,070	5,61,050
Yamèthin	1,886	1,651	515,557	366,639	303,930	5,52,393
Myingyan	2,832	2,899	1,213,318	680,140	587,272	4,37,291
TOTAL FOR 1912-13 ...	38,671	50,011	16,781,119	13,063,073	12,989,609	3,15,79,905
TOTAL FOR 1911-12 ...	38,853	50,216*	16,622,364*	12,568,243*	12,197,210*	2,91,70,357*

*Revised

Survey for the year 1912-13 (Paragraphs 8 and 9).

Supplementary Survey in Towns.							Total area under Supplementary Survey.	Total area occupied.	Total assessment.	Remarks.
No. of Towns.	No. of Blocks.	Total area. Gross area.	Occupied area in Town Register I.	Area under Government assessment.	Total Land Revenue and Rent and Land Rate.	Municipal assessments for which Surveyors prepare rolls.				
8	9	10	11	12	13	14	15	16	17	18
No.	No.	Sq. Miles.	Acres.	Acres.	Rs.	Rs.	Sq. Miles.	Acres.	Rs.	
1	10	5	1,876	1,663	13,299	...	2,083	704,399	19,67,018	
1	6	1	366	296	2,953	...	815	179,117	3,01,666	
1	6	1	169	124	313	3,464	269	58,326	1,13,641	
1	52	30	13,148	8,537	5,71,057	...	30	13,148	5,71,057	
15	49	7	3,094	3,073	17,640	...	1,335	539,474	15,91,569	
7	49	7	2,958	2,958	25,723	6,678	1,634	827,230	31,61,839	
12	62	16	7,084	6,911	39,386	...	1,280	499,388	13,77,844	
16	95	12	4,380	4,380	49,985	7,171	2,034	773,219	21,18,103	
7	35	9	4,521	3,608	31,524	...	1,723	371,357	7,00,181	
6	95	19	7,104	6,688	44,779	4,022	2,235	728,573	17,86,965	
10	98	16	6,200	5,865	37,407	...	1,809	580,559	15,47,728	
6	62	4	1,460	1,288	7,190	2,068	1,820	660,999	21,86,618	
5	61	5	1,900	1,795	11,359	25,880	1,648	454,885	16,06,916	
5	234	6	2,919	2,128	16,916	9,459	1,290	642,837	21,31,256	
10	39	12	3,302	3,289	35,847	44,183	1,482	423,518	9,68,661	
9	246	13	5,000	3,368	10,983	2,672	2,403	703,289	15,80,016	
3	120	20	7,948	6,179	29,153	...	1,758	502,435	10,04,595	
1	30	9	3,741	3,492	12,040	...	469	126,538	3,30,067	
2	143	2	1,022	854	4,350	28,869	590	96,565	2,98,571	
2	14	2	907	802	10,168	...	1,231	167,863	2,18,785	
1	51	4	360	60	935	14,467	1,687	742,361	4,91,450	
3	29	3	1,263	633	3,243	8,472	1,421	456,887	6,97,926	
3	24	4	1,224	...	4,127	...	2,721	951,749	4,20,404	
1	901	10	6,597	2,698	19,716	2,44,867	19	11,282	2,82,693	
1	19	7	1,481	1,390	3,490	31,877	695	256,408	8,73,556	
6	60	2	881	324	5,528	...	1,086	198,682	2,22,272	
16	44	4	1,135	265	4,135	...	3,684	1,021,508	11,56,607	
3	13	3	1,212	712	3,814	2,082	1,825	750,533	4,80,753	
2	23	1	851	219	1,368	5,275	2,541	784,146	4,26,889	
...	...	...	...	...	...	...	108	41,121	36,583	
...	...	...	...	...	...	...	567	255,745	8,32,876	
4	...	5	1,056	1,050	4,869	13,340	1,408	623,971	5,79,259	
...	...	...	...	...	3,403	...	1,651	515,557	5,55,796	
2	57	4	492	113	2,431	14,022	2,903	1,213,810	4,53,744	
162	2,727	243	95,651	74,762	10,29,131	4,64,868	50,254	16,876,770	3,30,73,904	
161	3,043	234*	92,872*	74,529*	(a) 9,08,047*	...	50,450	16,715,236	3,01,01,648	

figures. (a) Excludes "Land Rate."

STATEMENT NO. VIII.—*Cost of Supplementary*

District.	Superintendence and Inspection.				Supplementary Survey Field				
					Number of Survey Charges.				
	Pay and Travelling Allowance of Superintendent and Assistant Superintendent, if any.	Number of Inspectors.	Pay and Travelling Allowance of Subordinate Inspecting and Clerical Establishment.	Total cost (column 2 *plus* column 4).	Revenue Surveyors' Charges, Rural.	Revenue Surveyors' Charges, Urban.	Revenue Surveyors' Charges, partly Rural and partly Urban.	Survey Charges, in *Taiks*.	Survey Charges partly in *Taiks* and partly in Revenue Surveyors' charges.
1	2	3	4	5	6	7	8	9	10
	Rs.	No.	Rs.	Rs.	No.	No.	No.	No.	No.
Akyab	5,523	7	12,415	17,938	84	1	...	3	...
Kyaukpyu ...	4,627	4	6,621	11,248	13	..	1	10	6
Sandoway ...	5,513	3	5,104	10,617	11	...	1	...	2
Rangoon Town ...	7,920	2	9,086	17,006	...	...	...	16	...
Insein	9,974	5	12,248	22,222	1	34	8	11	...
Hanthawaddy (Syriam).	8,229	7	14,096	22,325	53	...	9	14	...
Tharrawaddy ...	4,949	6	9,008	13,957	38	...	12	10	...
Pegu	8,020	8	12,739	20,759	64	2	15	...	...
Prome	6,785	5	6,697	13,482	42	3	6	5	...
Bassein ...	9,529	9	14,836	24,365	61	7	...	11	...
Henzada ...	5,192	6	9,717	14,909	46	2	8	16	...
Myaungmya ...	6,857	6	10,966	17,823	52	...	6	7	...
Ma-ubin ...	4,911	5	9,874	14,785	47	...	5	2	...
Pyapôn ...	5,712	7	12,593	18,305	63	...	4	4	...
Toungoo ...	4,346	5	7,772	12,118	31	2	10	2	1
Thatôn ...	4,304	8	12,563	16,867	74	3	2	2	...
Amherst ...	6,744	6	10,752	17,496	50	4	2	5	3
Tavoy ...	3,988	3	5,458	9,446	17	2	1	3	...
Mergui ...	4,424	3	6,167	10,591	20	...	2	...	...
Thayetmyo ...	4,659	4	6,298	10,957	25	1	6	...	4
Pakôkku ...	6,890	9	12,201	19,091	71	...	1	...	..
Minbu ...	5,598	6	8,598	14,196	46	2	...	...	...
Magwe ...	6,948	8	11,374	18,322	73	...	3	...	...
Mandalay Town ...	3,700	2	5,370	9,070	1	13	...	...	...
Mandalay ...	9,910	5	9,295	19,205	47	2	...	...	...
Katha ...	4,620	5	7,868	12,488	33	...	6	...	...
Shwebo ...	8,476	12	17,741	26,217	102	...	16	...	...
Sagaing ...	5,842	8	12,145	17,987	69	1	...	...	...
Lower Chindwin ...	6,755	7	10,373	17,128	61	...	...	...	...
Upper Chindwin ...	3,800	1	4,900	8,700	8	...	...	...	...
Kyauksè ...	4,727	6	9,644	14,371	45	...	45	...	...
Meiktila ...	3,648	5	8,240	11,888	54	1	...	...	...
Yamèthin ...	5,826	6	9,254	15,080	60	1†	...	...	...
Myingyan ..	5,358	8	10,518	15,876	74	...	1	...	...
TOTAL FOR 1912-13	2,04,304	197	3,32,531	5,36,835	1,536	81	172	121	16
TOTAL FOR 1911-12	2,03,422	195	3,29,844*	5,33,268*	1,548	*62	123	*127	20

* Revised

Survey Staff in 1912-13 (Paragraph 10).

Staff.			Contingencies and Supplies and Services.	Total cost of Supplementary Survey.	Average Cost					Remarks.
							Of Supplementary Survey			
Number of Surveyors without local Charges.	Number of periodical Surveyors.	Total cost of field Supplementary Survey Staff.			Of Supervision and Inspection, per square mile.	Of Supplementary Survey field staff, per square mile.	Per square mile.	Per occupied acre.	Per cent. of total assessment.	
11	12	13	14	15	16	17	18	19	20	21
No.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ans.	Per cent.	
1	...	43,461	2,815	64,214	8·61	20·86	30·83	1·459	3·28	
...	1	12,197	1,499	24,944	13·80	14·97	30·61	2·228	8·27	
...	1	6,417	1,260	18,294	39·46	23·86	68·01	5·018	16·10	
2	...	21,418	1,352	39,776	566·86	713·93	1,325·87	48·404	6·97	
...	...	30,850	4,929	58,001	16·64	23·11	43·45	1·720	3·64	
...	...	44,481	3,706	70,512	13·66	27·22	43·15	1·364	2·23	
...	2	29,599	1,648	45,204	10·90	23·12	35·32	1·448	3·28	
...	...	46,155	2,713	69,627	10·20	22·69	34·23	1·441	3·29	
...	...	31,925	1,648	47,055	7·82	18·53	27·31	2·027	6·72	
...	...	43,432	992	68,789	10·04	18·98	30·78	1·511	3·85	
...	...	37,819	2,498	55,226	8·24	20·91	30·53	1·522	3·57	
...	...	36,940	4,628	59,391	9·79	20·29	32·54	1·438	2·72	
...	2	28,727	2,078	45,590	8·97	17·43	27·66	1·604	2·84	
...	...	39,485	1,739	59,529	14·19	30·61	46·15	1·482	2·79	
...	...	24,260	1,433	37,811	8·18	16·37	25·51	1·428	3·90	
...	2	43,410	1,657	61,934	7·02	18·06	25·77	1·409	3·92	
...	...	29,933	2,777	50,206	9·95	17·03	28·56	1·599	5·00	
...	...	12,499	3,313	25,258	20·14	26·65	53·85	3·194	7·65	
...	...	11,462	804	22,857	17·95	19·43	38·74	3·787	7·66	
...	...	14,729	1,783	27,469	8·90	11·96	22·31	2·620	12·56	
...	14	30,891	3,438	53,420	11·32	18·31	31·67	1·151	10·87	
...	10	20,589	2,636	37,411	9·99	14·49	26·33	1·310	5·36	
...	5	31,604	2,632	52,558	6·73	11·62	19·32	0·884	12·39	
...	13	7,832	761	17,663	477·37	412·21	929·63	25·05	6·25	
3	4	24,279	1,194	44,678	27·63	34·93	64·28	2·787	5·11	
...	...	20,179	2,028	34,695	11·50	18·58	31·94	2·794	15·61	
...	16	51,439	3,774	81,430	7·12	13·96	22·10	1·275	7·04	
...	8	29,702	1,981	49,670	9·86	16·28	27·22	1·059	10·33	
...	2	27,463	2,142	46,733	6·74	10·81	18·39	0·954	10·95	
1	...	4,621	552	13,873	80·56	42·79	128·45	5·398	37·92	
3	..	19,888	773	35,032	25·35	35·08	61·78	1·566	4·21	
...	...	22,464	1,948	36,300	8·44	15·95	25·78	0·932	6·27	
...	...	26,530	2,830	44,440	9·13	16·07	26·92	1·379	8·00	† Employed in the survey of leases, etc., relating to Railway Towns.
...	10	30,810	2,045	48,731	5·46	10·60	16·77	0·642	10·74	
10	90	9,37,490	73,996	15,48,321	10·68	18·65	30·81	1·468	4·68	
10	68	9,70,267*	63,455	15,66,988*	10·57*	19·23*	31·06*	1·500*	5·20*	

figures.

STATEMENT No. IX.—*Supplementary Survey*

District.	Number of *kwins* in the District under Supplementary Survey.	Number of *kwins* under Supplementary Survey in which the field work was tested.											Total number of *kwins* inspected by all Inspecting Officers.
		By District Officers:							By the Land Records Staff.				
			Subdivisional Officers.			Township Officers.				Inspectors.			
		Deputy Commissioner.	Number of Officers.	Number of *kwins* checked.	Average.	Number of Officers.	Number of *kwins* checked.	Average.	Superintendent.	Number of Inspectors.	Number of *kwins* checked.	Average.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Akyab*	1,242	6	4	51	13	9	118	13	81	7	595	85	817
Kyaukpyu ...	792	4	1	6	6	5	62	13	92	4	328	82	361
Sandoway	291	1	...	...	...	3	30	10	83	3	230	77	267
Rangoon Town† ...	*52*	...	...	...	...	...	...	...	*19*	*2*	*38*	*19*	*38*
Insein	1,169	2	2	14	7	4	10	3	95	5	372	74	493
Hanthawaddy (Syriam) †§	898	5	2	20	10	5	56	11	52	7	480	69	526
Tharrawaddy ...	599	...	2	44	22	6	71	12	57	6	523	87	545
Pegu	1,204	15	2	31	15	5	17	3	73	8	843	105	979
Prome‡	1,026	...	3	33	11	7	39	5	90	5	724	149	746
Bassein	1,269	2	2	14	7	6	23	4	173	8	584	73	730
Henzada‡‡‡ ...	849	5	2	6	3	6	15	3	117	6	642	107	747
Myaungmya ...	1,069	26	2	21	10	4	36	8	92	6	627	104	672
Ma-ubin	592	62	2	100	50	4	44	11	108	5	404	81	718
Pyapôn§	843	7	3	48	16	4	21	5	100	7	586	84	762
Toungoo‖	772	2	3	44	14	7	63	9	98	5	493	98	508
Thatôn	1,705	42	3	47	18	6	107	19	89	5	923	120	1,130
Amherst	1,232	1	3	15	5	8	68	8	81	6	532	89	625
Tavoy	486	8	...	...	8	4	32	8	116	3	304	101	350
Mergui	638	...	2	15	7	4	24	6	125	3	235	78	325
Thayetmyo	711	6	2	27	14	6	45	8	58	4	356	89	492
Pakôkku¶	1,892	9	2	23	11	5	58	11	54	9	1,061	118	1,205
Minbu	846	4	2	17	8	5	24	5	62	5	498	100	458
Magwe	2,121	3	2	18	9	6	53	9	117	8	1,105	138	891
Mandalay Town ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mandalay	760	11	2	16	9	4	27	7	86	5	694	139	636
Katha**	1,953	8	3	80	27	7	64	9	168	8	690	138	906
Shwebo††	3,649	6	3	44	15	9	279	31	179	12	1,579	132	1,796
Sagaing	1,178	1	2	113	56	6	163	27	135	8	1,053	132	814
Lower Chindwin ...	1,606	4	2	31	16	5	73	15	140	7	806	115	946
Upper Chindwin ..	188	2	1	57	57	1	25	25	76	1	91	91	146
Kyaukse	642	22	2	36	18	3	34	11	89	6	691	115	520
Meiktila‡‡	1,744	1	2	31	15	4	79	20	181	5	1,212	242	1,144
Yamèthin	1,886	10	(*c*)3	33	10	5	84	17	54	6	501	83	620
Myingyan	2,832	7	2	65	32	6	188	31	138	8	1,087	136	1,340
TOTAL FOR 1912-13 ...	38,684	282	68	1,100	15	169	2,032	12	3,259	191	20,849	105	23,215
TOTAL FOR 1911-12 ...	36,314	205	66	735	11	169	1,625	10	3,118	189	20,399	108	22,651

* Superintendent of Land Records inspected 3 *Kwins*
†Town
†§ Superintendent of Land Records inspected
‡ Superintendent of Land Records inspected 1 Town block and
§ Superintendent of Land Records inspected 20 Town blocks and
‖ Superintendent of Land Records inspected 25 Town blocks
¶ Superintendent of Land Records inspected 5 blocks and
** Superintendent of Land Records inspected 8 blocks and
†† Superintendent of Land Records inspected 140 *kwins* and
‡‡ Superintendent of Land Records inspected 4 blocks and
‡‡‡ Superintendent of Land Records inspected
(*c*) One Extra Assistant Commissioner

Inspections, for the year 1912-13 (Paragraph 12).

Abstract of errors discovered by the Land Records Staff.															
Errors affecting assessments.							Statistical errors.					Number of holdings.			Remarks.
Total number of errors in			Results of correction of errors.				Total number of errors in								
			Increase.		Decrease										
Area of extensions.	Crop marking.	Assessment.	Area.	Revenue.	Area.	Revenue.	Holding marking.	Crop marking.	Survey of interior details.	Record.	Total number of statistical errors.	In the *kwins* inspected.	Inspected in these *kwins*.	Found correct.	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			Acres.	Rs.	Acres.	Rs.									
269	2,578	15	284	694	68	136	753	96	6,077	1,192	8,118	67,959	19,031	12,530	
45	677	11	45	66	46	56	304	366	668	725	2,063	55,845	14,469	12,523	
313	830	5	38	67	3	5	174	329	1,422	506	2,431	32,715	6,937	4,466	
24	...	*19*	*10*	*195*	*1*	*4*	*1*	...	*150*	...	*151*	*1,850*	*390*	*244*	
63	51	117	244	818	70	178	217	63	3,097	384	3,761	17,809	7,082	5,429	
99	380	1	138	323	97	168	236	19	1,992	407	2,654	25,151	8,702	7,949	
88	319	...	61	103	126	265	342	10	1,906	446	2,704	54,916	22,633	10,275	
367	619	...	465	889	20	50	144	28	2,044	132	2,348	34,890	13,317	10,042	
249	618	...	53	81	4	5	497	52	1,225	864	2,638	169,068	35,911	33,166	
968	1,275	3	667	1,458	66	205	214	45	7,774	397	8,430	29,543	11,826	6,159	
294	1,338	62	188	443	62	151	1,334	713	5,697	921	8,665	49,139	24,741	14,920	
337	1,364	10	393	1,193	46	154	350	...	6,392	516	7,258	39,288	12,417	7,706	
385	382	2	291	905	160	619	492	382	3,643	665	5,182	31,083	11,045	7,002	
444	1,078	9	448	1,193	102	332	751	26	3,364	755	4,896	21,699	7,858	5,357	
131	223	2	122	227	46	98	434	373	1,548	599	2,954	39,761	13,582	11,253	
379	124	503	285	546	98	451	1,009	1,144	18,711	700	21,564	51,074	18,428	10,450	
522	4,385	7	372	558	60	104	660	258	4,867	850	6,635	31,939	14,138	9,875	
85	680	...	105	152	37	78	706	6	2,413	443	3,568	34,552	8,843	6,174	
83	450	3	48	133	11	26	250	156	1,629	434	2,469	17,071	7,203	5,233	
6,758	702	24	1,376	1,596	465	560	240	79	858	1,087	2,264	52,699	13,207	9,043	
65	1,643	359	991	3,482	137	311	645	3,396	573	1,144	5,758	168,179	23,776	19,684	
35	402	12	196	1,169	136	432	242	288	487	398	1,415	61,223	15,351	13,473	
202	537	...	343	356	173	199	340	213	337	659	1,549	139,093	41,671	38,448	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
87	847	21	201	693	181	515	162	98	696	702	1,658	58,482	17,310	15,497	
668	3,498	209	195	211	452	339	1,385	2,066	3,790	586	7,827	23,881	11,203	7,903	
48	4,357	158	1,781	4,326	1,449	2,930	905	2,171	1,111	3,045	7,232	204,159	46,745	38,701	
330	1,826	...	1,816	1,532	909	931	1,051	988	1,248	5,789	9,076	158,106	42,656	33,397	
130	1,611	...	3,099	3,024	551	485	495	667	421	2,220	3,803	159,793	41,055	35,710	
157	513	...	62	68	42	47	45	60	554	117	776	14,849	4,391	3,476	
106	1,077	12	274	1,589	164	639	269	150	995	1,040	2,454	60,448	20,427	18,193	
12	3,240	7	912	1438	770	1,196	225	1,250	513	1,988	3,976	182,526	46,536	40,673	
400	2,298	88	761	1,243	434	771	638	930	1,270	850	3,688	36,761	10,060	6,360	
205	1,670	...	947	581	698	552	972	1,137	1,156	1,912	5,177	131,098	38,238	33,494	
14,324	41,592	1,640	17,111	31,157	7,683	12,988	16,481	17,559	88,478	32,473	154,991	2,288,199	630,789	493,661	
6,979	42,752	4,021	16,930	39,623	8,516	11,842	13,591	16,457	75,677	26,512	134,228	3,041,227	718,253	500,928	

in Urban and Inspector 7 *kwins*.
blocks.
25 Town blocks and Inspectors 31 blocks.
Inspectors 21 blocks.
Inspectors 42 Town blocks,
and Inspectors 27 Town blocks.
Inspectors 17 blocks.
Inspectors 18 blocks.
Assistant Superintendents of Land Records 39 *kwins*.
Inspectors 10 blocks in Urban *kwins*.
7 Town blocks and Inspectors 36 Town blocks.
under training.

STATEMENT No. X.—*Miscellaneous Surveys by the Local Staff in* 1912-13 (Paragraph 13).

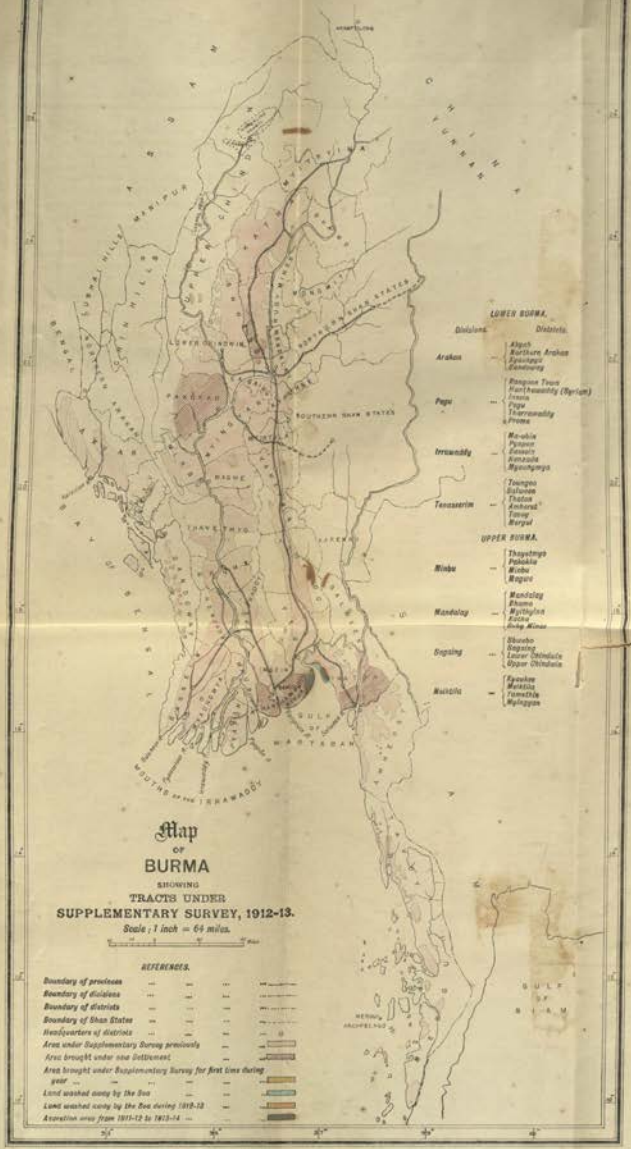
District.	Survey of Grants and Leases.						Re-surveys and Extension Surveys by the Local Staff.					Holding Surveys of impermanent Island cultivation in unsurveyed tracts.				Remarks.
	Number.			Area.			Number of *kwins*.			Area Surveyed.		Number of Holdings.			Area Surveyed.	
	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed wholly or in part.	Checked by Inspector	Checked by Superintendent.	Gross area.	Cultivated area.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Acres.	Acres.	Acres.				Sq. Miles.	Acres.				Acres.	
Akyab ...	...	.....	...	...	...	...	210	105	7	116	46,070	128	113	...	317	
Kyaukpyu ...	...	12	5	750	514	26	*14	11	4	19	5,833	...	...	...	...	
Sandoway ...	...	...	...	...	....	...	45	36	4	4	2,347	...	...	...	...	
Rangoon Town	1,177	236	65	94	65	30	4	4	2	0·13	90	...	...	...	...	
Insein ...	...	...	...	...	...	...	32	27	5	34	14,471	...	...	...	...	
Hanthawaddy (Syriam).	2	...	...	12	...	...	18	13	3	14	6,882	...	...	...	...	
Tharrawaddy...	...	...	...	...	...	...	115	15	...	18	8,543	2,071	12	...	1,087	
Pegu ...	25	...	...	31	...	...	69	55	5	25	13,174	446	152	...	1,765	
Prome ...	...	...	...	...	...	...	5	...	...	16	1,202	2,423	35	...	5,579	
Bassein ...	...	...	...	...	...	...	97	16	...	30	18,023	...	...	...	...	
Henzada ...	106	36	27	29	20	9·26	52	21	8	37	22,459	11,369	1,557	30	32,789	
Myaungmya ...	22	14	...	8	7	...	33	29	8	50	19,225	1,080	45	...	9,990	
Ma-ubin ...	8	2	...	0·54	0·12	...	22	22	5	29	12,969	...	...	...	...	
Pyapôn ...	...	...	...	...	...	...	60	34	...	39	20,781	744	120	25	4,635	
Toungoo ...	4	4	...	24	23	...	58	20	...	101	18,722	...	...	...	...	
Thatôn ...	...	...	...	...	...	...	59	54	7	81	28,702	...	...	...	...	
Amherst ...	14	10	...	105	103	...	69	50	8	53	18,025	...	...	...	...	
Tavoy ...	13	...	...	158	..	...	10	5	...	1	904	...	...	...	...	
Mergui ...	4	4	...	217	217	...	4	...	...	17	112	...	...	...	...	
Thayetmyo ...	12	8	1	54	13	2	49	8	1	2	1,329	...	...	...	...	
Pakôkku ...	...	....	...	...	...	...	...	...	...	...	...	7,634	1,688	387	5,763	
Minbu ...	...	...	...	...	...	...	...	...	...	...	...	2,500	510	40	5,616	
Magwe ...	...	...	..	...	...	...	255	88	15	5	3,482	2,171	2,077	242	2,988	
Mandalay Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mandalay ...	...	...	...	...	...	...	58	50	7	37	16,811	...	...	...	...	
Katha ...	110	16	...	194	2	...	192	...	...	54	3,898	535	6	...	686	
Shwebo ...	5	5	5	1,216	1,216	1,216	172	10	...	6	3,933	3,456	568	180	15,843	
Sagaing ...	102	...	...	14	...	...	25	25	2	26	12,381	6,608	1,078	258	22,146	
Lower Chindwin.	...	...	...	...	...	...	...	...	...	...	...	3,627	1,149	99	17,572	
Upper Chindwin.	...	...	...	...	...	...	2	...	...	230	230	1,535	240	178	1,986	
Kyaukse ...	...	...	...	...	...	...	17	9	8	14	6,826	...	...	...	...	
Meiktila ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Yamâthin ...	118	8	1	51·45	25·73	1·58	26	26	11	11	5,095	...	...	...	...	
Myingyan ...	...	...	...	...	...	...	...	...	...	...	...	9,438	3,894	715	27,979	
TOTAL FOR 1912-13.	1,717	400	104	3,358·99	2,236·15	1,284·84	1,802	726	110	1,126·13	331,214	55,816	13,039	2,154	150,611	
TOTAL FOR 1911-12.	1,719	342	41	3,002·194	1,620·85	35·19	2,402	844	156	641·83	229,208	45,857·56	10,808	2,541	112,368	

* Ten *kwins* wholly, 4 *kwins* in part.

STATEMENT XI.—*Statistics relating to Government Survey Schools, for the year* 1912-13
(Paragraph 20).

District.	Daily average number of pupils on the rolls.	Number of days the school was in session.	Average number of days each pupil received tuition.	Number of pupils on the rolls on the 31st March.			Total income for the year.	Total expenditure for the year.					Number of pupils presented at the last examination in						Remarks.
													Surveying.		Arithmetic.		Revenue law.		
				Pupils paying fees.	Free pupils.	Total.		On Establishment.	On Scholarships.	On prizes and bonuses.	On other contingencies.	Total.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.							
Akyab	11	250	218	12	...	12	161	1,104	455	32	323	1,914	12	3	11	5	11	1	
Kyaukpyu ...	13	259	212	10	...	10	155	1,104	772	63	280	2,219	10	7	10	6	10	5	
Insein	19	261	235	19	...	19	466	1,148	821	...	473	2,462	16	11	15	8	15	7	
Pegu	14	269	242	6	9	15	195	1,037	960	69	192	2,258	15	7	15	8	15	5	
Prome	6	283	246	2	1	3	90	1,104	448	55	202	1,809	3	1	3	...	3	...	
Bassein ...	13	267	229	9	4	13	230	1,128	884	75	368	2,455	11	8	11	7	11	4	
Henzada ...	22	262	244	17	3	20	250	1,104	512	72	11	1,699	20	13	20	14	20	4	
Maubin ...	17	269	272	12	5	17	207	1,104	950	105	156	2,315	15	12	15	13	15	9	
Toungoo ...	17	250	255	9	3	12	384	835	370	74	64	1,343	11	10	10	10	11	4	
Amherst ...	19	256	198	15	2	17	420	1,104	926	104	479	2,613	17	15	16	16	15	14	
Tavoy	9	242	184	10	...	10	246	1,024	930	69	320	2,343	9	7	8	7	8	8	
Pakôkku ...	19	260	249	2	18	20	81	980	800	145	30	1,955	20	15	17	14	17	14	
Minbu	30	261	262	8	20	28	116	976	1,006	223	77	2,282	27	24	25	19	26	22	
Mandalay ...	20	265	227	17	1	18	236	1,068	755	57	106	1,986	18	18	18	17	16	16	
Katha	12	247	127	4	8	12	61	888	729	53	53	1,723	12	12	11	8	5	5	
Shwebo ...	27	276	209	1	24	25	63	1,134	1,004	253	112	2,473	25	23	23	17	17	14	
Lower Chindwin ...	19	235	500	8	8	16	99	903	559	139	95	1,701	16	16	10	10	13	13	
Meiktila ...	28	261	255	16	9	25	207	864	1,370	169	70	2,471	24	21	23	10	23	16	
Yamèthin ...	23	261	243	13	10	23	263	864	840	97	15	1,816	21	10	20	11	21	7	
Total for 1912-13 ...	338	260	241	189	125	314	4,071	19,448	15,101	1,864	3,423	39,827	302	234	281	200	272	163	
Total for 1911-12 ...	298	255	224	165	117	282	3,682	19,792	14,367	1,774	3,067	39,000	273	215	249	163	261	172	

G. B C. P. O.—No. 88, C. S. L. R., 14-10-19 13—318—J. A. P.


Map
OF
BURMA
SHOWING
TRACTS UNDER
SUPPLEMENTARY SURVEY, 1912-13.
Scale : 1 inch = 64 miles.
REFERENCES.
Boundary of provinces
Boundary of divisions
Boundary of districts
Boundary of Shan States
Headquarters of districts
Area under Supplementary Survey previously
Area brought under new Settlement
Area brought under Supplementary Survey for first time during year
Land washed away by the Sea
Land washed away by the Sea during 1912-13
Accretion area from 1911-12 to 1913-14
LOWER BURMA.
Divisions
Districts.
Arakan
Akyab
Northern Arakan
Kyaukpyu
Sandoway
Pegu
Rangoon Town
Hanthawaddy (Syriam)
Insein
Pegu
Thayetmyo
Prome
Irrawaddy
Ma-ubin
Pyapon
Henzada
Kyonkpyu
Myaungmya
Tenasserim
Toungoo
Salween
Thaton
Amherst
Tavoy
Mergui
UPPER BURMA.
Minbu
Thayetmyo
Pakokku
Minbu
Magwe
Mandalay
Mandalay
Shwebo
Myingyan
Katha
Ruby Mines
Sagaing
Shwebo
Sagaing
Lower Chindwin
Upper Chindwin
Myitkyina
Kyaukse
Meiktila
Yamethin
Myingyan
UPPER CHINDWIN
SOUTHERN SHAN STATES
GULF OF MARTABAN
GULF OF SIAM
MERGUI ARCHIPELAGO

LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDED THE 30th JUNE 1914

RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1914

133920

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LAND RECORDS ADMINISTRATION REPORT OF BURMA

For the year ended the 30th June 1914.

CHAPTER I.

INTRODUCTORY.

1. *Work of the year.*—The total area under supplementary survey in 1912-13 was given as 50,011 square miles in last year's report, but it has been necessary to revise the figures owing to a careless mistake in Pakôkku where the Superintendent of Land Records understated the district area by about 1,300 square miles. The revised provincial area of 1912-13 is now given as 51,330 square miles and this area has been increased in the year of report to 51,452 square miles. The increase of 122 square miles is mostly due to accretions of land on the Sittang estuary in Pegu. This year no areas, such as were mentioned in the last report, have been brought under fixed lump sum assessments and there has consequently been no further abandonment of supplementary survey.

New settlements were introduced in Insein, Amherst and Yamèthin. In Akyab and Sandoway the Special Survey Party revised the survey of an area containing about 80,000 acres of occupied land and extension surveys by the same party in Kyaukpyu and Thayetmyo accounted for some 35,000 acres.

The survey training of the last batch of junior Superintendents came to an end a month after the year opened. Probationers continued their training under an officer of the Survey of India Department, but later in the year a scheme for giving the survey training in the Land Records Special Survey Party was sanctioned and started.

The Land Records Department effected the assessment within supplementary survey limits of 339½ lakhs of rupees at a cost of nearly 17 lakhs or a little over 5 per cent. The proportion of cost to demand is slightly less than last year. It has also to be noted that the staff also prepares assessment rolls for an area of several hundred thousand acres outside supplementary survey limits which does not enter into the above calculation.

CHAPTER II.

SPECIAL DEMARCATION AND SURVEYS.

2. *Demarcation preliminary to survey.*—Demarcation in advance of original cadastral survey was undertaken in the Kyaukpyu and Thayetmyo Districts. In Kyaukpyu an area of 36 square miles was demarcated. The work, though very scattered and comparatively difficult, is reported to have been satisfactorily done at a cost of Rs. 25 per square mile. In Thayetmyo an area of approximately 202 square miles was completed in six months. The cost was Rs. 6-8-0 per square mile. Some area not worth survey was unnecessarily demarcated. Statement I.

3. *Revision Surveys by Special Staff.*—The Special Survey Party having completed recess work connected with revision and extension surveys of the Akyab District undertaken in the previous year dealt with and completed the field work of the rest of the revision survey programme amounting to 72,580 occupied acres. The party also revised the survey of 7,130 acres in the Sandoway District. The revisions were done throughout on traverse plots based on theodolite work and despite sickness in the party, were completed in all, but one small *kwin* within the period of sanction. The Assistant Director examined the field work and found it of good type. The cost works out to 5 annas per occupied acre. Maung San Shwe, Superintendent of Land Records, was in charge of the party till the 19th February when he was succeeded by Mr. Beechey, the senior Superintendent of Land Records of the Department, who brought the season to a close successfully. Statement II.

Statement III.

4. *Extension Surveys by Special Staff.*—During the year extension surveys by the Special Survey Party were conducted in the Kyaukpyu and Thayetmyo Districts. The area for survey in the Kyaukpyu District was just over 36 square miles with 16,254 acres under occupation contained in 94 scattered *kwins* chiefly in the Myebon and Kyaukpyu Townships. The survey was based on theodolite traverses geographically connected. The cost works out to Rs. 319-10-0 per square mile or 11 annas per occupied acre. In the opinion of the Assistant Director, who inspected the work, the extensions which are mostly clearings in process of reclamation were not yet ripe for cadastral survey. It is unfortunate that the Superintendent in charge of the party was not able to stop unnecessary surveys by early supervision.

In Thayetmyo of the 202 square miles demarcated the area traversed and surveyed was 122 square miles with 19,182 acres under occupation and contained in 122 demarcated *kwins* of the Myohla, Shwepandaw and Thanbula circles in the Thanbula Township. From a survey point of view the tract was a difficult one. It consisted, for the most part, of wooded hills and undulating jungle blocks with little cultivation, which, except in some *kwins* of the Shwepandaw circle, was sparse and scattered. Some unproductive survey seems to have been done and probably it would be as well to leave the remaining demarcated 80 square miles unsurveyed. The work done was satisfactory and of a high standard. The cost was Rs. 140-9-0 per square mile or as much as 14 annas per acre.

The extension survey of 5 *kwins* with a gross area of 2 square miles and an occupied area of about 1,000 acres in Sandoway was not dealt with owing to some misunderstanding which has not been explained by the Special Officer.

Statement IV.

5. *Town Surveys.*—Work in this connection was restricted to the demarcation and survey of the small railway town of Hmawbi and to a continuation of the revision survey operations in Rangoon Town. The former was surveyed on the scale of 64 inches to the mile. In Rangoon Town the year of report makes the fourth year in which the scheme for revision surveys has been in operation. In order to expedite the work three surveyors from the regular line were deputed to assist the flying column attached to the Rangoon Town District with effect from December 1913. The season's programme was not completed and 6 of the 14 blocks for resurvey remained untouched. The total area surveyed on the scale of 100 feet to the inch was 1,986 acres and that on the scale of 50 feet to the inch only 20 acres. The season's outturn did not work out to much over 3 acres of detail survey per day per man which is extremely low. Five acres per day per man is a fair outturn on the scale of 50 feet to the inch but on the smaller scale 10 acres should have been achieved without effort. The surveys were examined by the Assistant Director and found of excellent quality, but they could not very well have been otherwise considering the low outturn demanded from the men. The cost, inclusive of recess work, amounted to Rs. 2-15-0 per acre.

During the year, the Local Government confirmed the demarcation of the new Port Trust limits under Part I (2) of the second schedule of the Rangoon Port Act, 1905, and the lithograph plans relating thereto have been published.

Statement V.

6. *Fishery Surveys.*—Nil.

Statement VI.

7. *Potta Surveys by Special Staff.*—*Potta* survey operations were chiefly conducted by special agency in seven districts. In five districts the establishments were paid on the contract system, in one the *potta* surveyor received regular pay and in another both forms of remuneration were employed. The fees realized are generally in excess of the charges incurred on survey, but Kyaukpyu is an exception, the charges greatly exceeded the amount collected, a result due to the belated disbursement of fees collected in the previous year. In Akyab the bulk of the *pottas* was disposed of by the Revenue Surveyors, while in Sandoway one *potta* surveyor employed in each township attended to the proceedings initiated in his township during the year without however being promptly remunerated for the work he did. Delays in payment for piecework should be avoided. In Amherst the surveys related chiefly to accretions on the west coast of the Chaungzon Township and in the mouths of the Salween river. The area applied for rubber cultivation declined, while there was no demand for cotton; but a few applications were received for cultivation of the Citronella oil plant for the first

time. In Tavoy of the 72 cases received 53 were disposed of and of those pending 8 relate to rubber areas for the survey of which a special surveyor on regular pay is being proposed. In Mergui a special staff consisting of one Inspector and seven Surveyors was employed on the survey of *pottas*. The report does not state how the work was done and there appears to have been considerable delay over these surveys. The large difference between receipts and payments is also unexplained. Consequent on the suspension of *pottas* in the Magwe Division no surveys in this connection are now made in Pakôkku and Minbu, but in the former district the demarcation and survey of certain areas under mining leases or prospecting licenses to various companies for mineral mining purposes were undertaken by special surveyors paid out of the fees deposited under the Burma Mining Rules. In Minbu the survey of 7½-acre blocks in tracts receiving or about to receive irrigation from the two Môn canals and the new distributary of the Man canal was continued. Most of the blocks were allotted, regular leases being exceptional and issued only in cases where there were actual disputes or a probability of such arising. The operations were under the Special Lease Officer and cost Rs. 214. The survey fee charged in the case of leases was eight annas per acre, but the lease area being small the amount recovered was Rs. 29 only.

CHAPTER III.

SUPPLEMENTARY SURVEY WORK.

8. *Rural area under Supplementary Survey.*—In 1913-14, the rural area under supplementary survey was 122 square miles more than in the preceding year; this increase was contributed mainly by the Akyab, Insein, Pegu and Yamèthin Districts. In Akyab thirteen new *kwins* were brought under supplementary survey for the first time, and in Yamèthin the increase of area was partly due to alterations made by revision settlement, and partly to a recalculation of areas. The increase in the Pegu District is due chiefly to the accretions formed at the mouth of the Sittang river. The rural assessment aggregated Rs. 3,23,91,877, an increase of Rs. 8,11,972, on the record total of 1912-13. The whole increase cannot be attributed to mere expansion and part is due to new assessment rates following the settlements in Insein, part of Amherst, and part of Yamèthin Districts, together with the substitution of full for intermediate rates in parts of Sandoway, Pyapôn and Amherst. Statement VII.

9. *Supplementary survey in Towns.*—The urban area continued to expand, and the total area now under Supplementary Survey in towns is 245 square miles, as compared with 243 square miles, last year. The town assessments credited to Government totalled Rs. 10,46,845 an increase of Rs. 13,026; there has likewise been an expansion of Municipal assessments on covered and uncovered areas which are levied by the Land Records Department, and in the year of report this aggregated Rs. 5,35,089. One additional town was brought under supplementary survey during the year. The work in urban areas has been somewhat unsatisfactory in the past; but it is hoped with the remodelling of Chapter XIV of the Land Records Manual, that work in this direction will be systematized in future, and better results obaitned in survey, preparation of rolls, and assessment. Statement VII.

10. *Cost of Supplementary Survey Staff.*—The total cost of supplementary survey was Rs. 15,42,973 being Rs. 5,348 less than in the previous year; nominal additions, mostly due to the death and retirement of *taikthugyis* were made to the staffs in several Lower Burma districts. The amount paid in salaries to surveyors was Rs. 10,132 less than last year; this was due to fewer men being on privilege leave, and to a ruling of the Accountant-General that officiating men draw the pay of the lowest grade surveyor in the district, and not that of the incumbent on leave. Contingencies also show a decrease of Rs. 4,976: this total last year was inflated by expenditure on demarcation posts for grazing grounds and the protection of survey marks in towns. The cost of the Department for the year calculated on an assessment basis shows a decline of ·14 and stands at 4·54 per cent. Statement VIII.

11. *The preparation and submission of assessment rolls.*—In most districts these rolls were punctually submitted, and where this was not attained, in the majority of cases, good cause for delay was shown. In districts where settlements are proceeding or new rates are being introduced, extra work is thrown upon the land records staff, and a slight delay generally follows. The Minbu District continues to show an improvement. The effect of getting the first assessment season late in Upper Burma is generally disastrous, and leads to all other assessment rolls falling behind hand. The only remedy for this is to make the staff take the field earlier and insistence on the recess work being done early. The excuses offered by the Toungoo and Magwe Districts for late submission of the rolls are unsatisfactory; and it would appear as if late submission of rolls was about to become chronic in the latter district. In the Myingyan District the *kaing* rolls were submitted late. In the three districts of Mônywa, Pakôkku and Mandalay, the experiment of having only one assessment roll (Register II) instead of two, is being tried and is reported on very favourably by district officers, who are unanimously in favour of extending the system to the whole of their districts.

Statement IX.

12. *Inspection of Supplementary Survey Field Work.*—Deputy Commissioners inspected 177 *kwins* during the year, 105 less than last year. Of this total 74 *kwins* were inspected by Captain Roberts and Major Biggwither. There was likewise a fall in the total of *kwins* inspected by Subdivisional Officers, but a slight increase in the amount of inspection done by Township Officers. The amount of inspection done by Township Officers in many cases, is in exact proportion to that done by the senior District Officers. In the following districts: Thayetmyo, Minbu, Magwe, Mandalay, Kyauksè and Meiktila there is little excuse for Township Officers not working up to the minimum. In nearly all delta districts overwork is given as an excuse for short inspections; but from a detailed examination of inspections, it would appear that in many cases failure to inspect is due to the non-recognition of the importance of this work, want of energy, and transfers of officers in the field season. Any Township Officer in the delta could, by devoting eight days to this work, before the assessment rolls are received, reach the standard of inspection set. The best inspections by districts were made in Thatôn, Shwebo, Sagaing and Lower Chindwin. A suggestion made by the Commissioner of Magwe might well be adopted:—'if Subdivisional and Township Officers are to be kept up to the mark the Deputy Commissioner should require them to submit a fortnightly return from January to March. The expressions of disappointment and displeasure their delinquencies call forth on the occasion of the preparation of the annual report, are quite forgotten by the time the next open season comes round.'

Superintendents and Assistant Superintendents of Land Records inspected 122 *kwins* more than in the preceding year. Shwebo, Akyab and Bassein return the highest totals, but as there was an Assistant Superintendent of Land Records in these districts, this was to be expected. The good inspection work done in Prome, Lower Chindwin and Katha is deserving of commendation. Though the total number of *kwins* inspected in Minbu and Yamèthin was not large, it was clear from the notes submitted, that they were thorough, and instruction had been combined with inspection. The amount of inspection done in the Tavoy, Mergui and Tharrawaddy Districts was inadequate, considering the size of *kwins* in these first two districts, and the facilities of transport in the last.

The average number of *kwins* inspected by Inspectors was 108, a slight increase on last year's figures. The work done in Toungoo, Tharrawaddy, Bassein, Thayetmyo and Mergui was insufficient, and Rangoon Town, though commented on unfavourably last year, shows scarcely any improvement. Inspecting Officers find, that though Inspectors show sufficient inspection, there is a distinct tendency to neglect outlying *kwins* in a charge, and cases have been discovered where such have not been visited for over two and three years. The standard to be aimed at is a visit to every *kwin* in the Inspector's circle in two years.

The result of all inspections done was an increase of revenue of Rs. 8,659. The errors discovered in Magwe, Shwebo and Myingyan were astonishingly few, considering the nature of the country, the variety of crops grown, and the fact that transfers are not automatically reported to the Surveyor. There is reason to believe that a high standard of crop marking is observed in Upper Burma districts, and during the year of report only one considerable fraud was detected in

assessment. The punishment meted out to the men detected last year in Pakôkku, Lower Chindwin, and Shwebo has had a salutary effect; but unremitting vigilance is always necessary.

There is reason to believe that extensions of cultivation are not always assessed in Lower Burma, and the Deputy Commissioner reports cases from Kyaukpyu; in the Bassein District the Settlement Officer of No. 4 Party showed an area under paddy of some 10,000 acres in excess of that assessed by the Land Records staff. This matter is at present under enquiry. In the Insein District, with the new Settlement areas and rates, any little difference is called in question, and much extra labour is entailed on the staff tracing holdings and accounting for differences in area. The non-resident landlord is a source of great trouble, as he seldom knows accurately the limits of his holding.

13. *Miscellaneous Surveys by the Local Staff.*—The survey of new grants and leases was mostly confined to towns, but in the Shwebo District, in extension of the Shwebo Canal system, 1,575 acres of the grazing grounds of Mabe and Zibyugon were demarcated into blocks averaging 12 acres for allotment as leases among residential cultivators. Statement X.

The revision and extension surveys carried out by the local staff comprised 466,083 acres, or over 154,000 acres more than last year. The districts of Kyaukpyu and Thayetmyo alone report no outturn of work consequent on preparation of revised area statements for use in revision settlement operations, but most of the other districts show large increases, particularly Akyab, Henzada, and Ma-ubin in which they exceed one hundred per cent. The figures for Akyab include revisions effected under the supervision of the local Superintendent by eight unattached extra surveyors whose work is described later. The average for Lower Burma was nearly 250 acres, and though not up to the standard 400 acres suggested in paragraph 13 of the Report for 1911-12, it was an improvement on last year. The Henzada and Ma-ubin Districts did particularly well, the surveyors in the former averaging over 600 acres and in the latter nearly 500 acres each. On the other hand the Thatôn, Toungoo, Prome, Tharrawaddy, Bassein, Tavoy and Mergui returns are disappointing. There was an increase in the amount of re-survey performed in Upper Burma also, and the average outturn per surveyor reached nearly 175 acres. In the Yamèthin District a creditable output of re-survey resulted as the fruit of Mr. F. A. DeSouza's instruction camps of the previous year, but in Katha, where similar methods were followed, the results were poor, probably because of this being a first attempt. The achievement in the Pakôkku District of 24,032 acres, or an average of 340 acres for the whole local staff, was creditable. The work in many districts was insufficiently checked by the Inspectors and the Superintendents also need to be more alive to the necessity of checking these important re-surveys effected by the local staff.

The area of impermanent cultivation surveyed by the local as well as by the periodical staff exceeded 225,000 acres and was 74,000 acres more than in the preceding year. There were large increases in all but three of the districts reporting these re-surveys, but in Pakôkku alone the increase exceeded 45,000 acres due to the discovery of fraudulent *Kaing* assessments necessitating a fresh survey of the island *kwins*. The district reports do not furnish explanations of the increase in Yamèthin or of the decreases in the Minbu, Shwebo, and Lower Chindwin Districts.

The special staff of eight extra surveyors under the supervision of the local Superintendent in the Akyab District disposed of 71 *kwins* covering 76,689 acres by re-surveying parts that actually needed re-survey and attending to Kazin corrections and the survey of minor extensions and encroachments in those that merely required to be brought up to date. A balance of 29 *kwins* remains to be taken up next year. To this should be added eight *kwins* which the Special Survey Party omitted to take up. The field work was inspected by the Assistant Director and found generally of good type.

14. *Scheme for future Revision Surveys.*—In paragraph 14 of this report for last year it was pointed out that the programme of re-survey required within the next three years was compiled on incorrect lines in many instances. No less than twenty-one districts—eleven in Lower Burma and ten in Upper Burma—have erred again this year by failing to exhibit the amount of re-survey which it is contemplated the local staff will carry out *in each of the three years*. It was also

pointed out that only when the area was more than the local staff could cope with should the entertainment of a special staff be considered, but no less than twelve districts in Lower Burma and one in Upper Burma report that arrears of survey are beyond the capabilities of the local staff, despite the fact that in six of the Lower Burma districts the areas requiring revision within three years amount to less than the output to be demanded from the local staff. In Thayetmyo no re-surveys for the local staff have been provided for while in Mergui the figures barely reach one-third of the standard of 400 acres per surveyor. The attention of the districts concerned has been called to these inaccurate and careless estimates.

The special Survey Party, according to its approved programme, is to deal with revision surveys in six Lower Burma districts during the three year period 1914—17. The returns from these districts, however, now show that the areas and *kwins* proposed for re-survey by this party are greatly in excess of those reported in Appendix B of last year's report on which the sanctioned estimates of the party were based. Such alterations cannot be admitted and any additional area now found to require re-survey should be added to the three-year years' programme of the local staff.

15. *Preservation of Permanent Survey and Boundary Marks.*—District reports indicate that these are receiving greater attention from *thugyis* and revenue surveyors, but there is still room for much improvement. In one or two cases the headmen were not supplied with the necessary forms for submitting their reports, and these reports were in several cases received so late that the surveyors had but a limited time in which to verify them. In two cases it was found that the reports submitted were false. The protection of marks is apparently less well attended to in Lower than Upper Burma. One headman was removed, several fined, and others warned for not preserving the marks in their care. In the Bassein District, particularly in the Ngaputaw Township, permanent survey marks have not received sufficient attention. In Thatôn a proper handing over of marks has been made, and the interest of headmen in this work stimulated; but Amherst reports that in several townships Township Officers have not kept the headmen up to the mark. In Upper Burma the conditions of marks is fairly satisfactory, and this is particularly so in the Sagaing Division. The suggestion of Mr. B. S. Carey that good work in this direction by headmen should be recognised in open Durbar might well be adopted.

Survey marks in towns, where these have been made permanent, are only in fair condition. Considerable preservation has been done in Rangoon and Mandalay. The condition of marks in Pegu and Nyaunglebin are satisfactory, but in Myingyan the marks have been neglected. It is hoped to put Bassein town right when it has been re-surveyed. In some of the smaller towns no progress has been made in putting down brick pillars, owing to a want of funds.

16. *Inspection of Supplementary Survey Recess Work.*—The inspection of recess work in the Syriam and Ma-ubin Districts by the Superintendents of Land Records was very satisfactory, and in Akyab, Ma-ubin and Henzada, district officers inspected several revenue surveyors' offices. The amount of inspection done by the Superintendents of Land Records in Kyaukpyu, Insein, Thayetmyo, and Yamèthin appears to have been inadequate. Inspections by Inspectors of Land Records are often perfunctory, and this is in part due to want of instruction. The system followed in Prome might be adopted with advantage in other districts. There the Inspectors are assembled at the beginning of every recess season, and the Superintendent of Land Records inspects an office with his men, giving them a memorandum of the points to which particular attention should be directed. Afterwards on his inspections the Superintendent sees that the Inspectors of Land Records have carried out his orders.

In some of the Lower Burma districts inadequate supervision by Inspectors in the recess season is attributed to the fact that the fixed travelling allowance during the rains is just half that of the field season, and is insufficient to cover their expenses; but this is in many cases only an excuse for not doing a reasonable amount of inspection.

17. *Miscellaneous duties of the Land Records Staff.*—(*a*) In Insein, Tharrawaddy, Pegu, Myaungmya, Thatôn, Mergui, Tavoy, Minbu and Katha, the Superintendents failed

Assessment outside of Supplementary Survey.

to make any check of measurements outside Supplementary Survey, though in all these districts checks were made by the Inspectors concerned.

Check of tax tickets.

(*b*) In Prome, Lower Chindwin and Katha alterations or fraudulent collection of revenue were detected. In Prome, a headman had by alteration collected Rs. 10 in excess for his own benefit. In Lower Chindwin the *thugyi* and his son altered tickets and collected Rs. 138 in excess. The headman was dismissed and his son criminally convicted. In Katha apparently a duplicate set of tickets was issued for nine holdings and the headman collected the demand twice. This case is still under enquiry. The checking in most cases revealed slight clerical errors. In the delta the check of tickets is difficult, as the tickets are often in the hands of the mortgagee or landlord, and he is generally non-resident or does not take the trouble to accompany the inspecting officer to the field.

Demarcation of grazing grounds.

(*c*) Demarcation of grazing grounds shows considerable progress during the year, and the Land Records staff has been particularly active in this work in the Insein, Pegu, Bassein, Henzada, Toungoo and Tavoy Districts. This work necessarily involves much search amongst old records, and the necessity often of reconciling these old maps with facts found on the ground. The grazing grounds after declaration are being slowly defined on the ground with reinforced concrete posts. In Bassein, the Deputy Commissioner reports that prosecution for encroachment has been carried on without justification in some cases, and owing to the carelessness of Magistrates trying the cases, there is reason to believe that surveyors have benefited financially. Two surveyors in Bassein were removed for permitting blatant cases of encroachment in their charges.

Reporting of transfers.

(*d*) The reporting of transfers by cultivators is improving though there is considerable differences in districts. In Upper Burma it is difficult in some cases to do anything to bring the record up to date owing to the holding being part of an undivided inheritance. The Minbu system reported last year, under which general notices are issued (*a*) fixing dates of surveyors' intended visits to villages and (*b*) requiring cultivators to report changes on those dates, is being tried with success in several districts. The ordinary cultivator is not however particularly keen on the record-of-rights being up to date, provided there is no litigation imminent. Sub-Registrars and Civil Courts usually furnish memoranda of transfers promptly ; but in the case of Civil Courts the maps filed in the suit are often not particularly recent, and the surveyor finds some difficulty in making the necessary alterations in the map in hand. The defects noted in Amherst last year showed some improvement during the year.

List of unauthorised transfers.

(*e*) The prescribed lists of unauthorised transfers were not prepared for the Sandoway, Pyapôn, and Myaungmya districts, and were not completed for Prome, Tharrawaddy, and Pegu when the report was submitted. The work involved is considerable and the results problematical. From figures supplied by the Thatôn District it appears that in 1912-13, after a search through 2,906 transfers, some 46 were reported as unauthorised, and up to date this has resulted in resumption in some nine cases.

Miscellaneous.

(*f*) The Land Records staff has to prepare all land acquisition notifications and this entails a large amount of work on the staff where irrigation is developing as in Minbu and Shwebo. The staff during the present year has paid more attention to encroachments on public roads, canals and reclamation bunds with satisfactory results: but in several cases difficulties have been encountered in tracing the original acquisition proceedings. In Mergui and Tavoy the staff has been kept busy in mining surveys. From several districts there are complaints that revenue-officers do not always value the time of the surveyor. Appointments are made and not kept, and the surveyor is called on bootless errands to Court. He is asked to report and prepare maps on the least provocation, and so taken away from his more legitimate duties.

Settlement preparations.

(*g*) In all districts where Settlement operations are proceeding, extra work is thrown on the Land Records staff. The preparation of new and correct area statements, the furnishing of records and crop cutting, are a few of the main additional duties entailed. In

Henzada the Settlement Officer acknowledged the great assistance rendered by the Land Records Department.

18. *Condition of Land Records Offices and Record-rooms.*—The offices of 31 districts and 30 record-rooms were inspected by the Commissioner of Settlements and his assistants during the year. The Deputy Commissioners of Ma-ubin and Thatôn inspected their Land Records offices and record-rooms. The inspections showed that 14 offices and 12 record-rooms were in good order, and that Minbu District showed distinct improvement. The record-rooms at Tharrawaddy, Tavoy, and Thatôn were unfavourably criticised; but the remaining offices and record-rooms may be taken as in fair order. Insufficient supervision is generally the cause of laxness, and more inspections might well be done by Deputy Commissioners and Superintendents.

19. *Conduct of the Subordinate Land Records Staff.*—Two Inspectors were removed or dismissed, and four suspended or reduced during the year. Amongst surveyors the number of punishments is proportionately higher, and during the year some 58 men were removed or dismissed from their appointments and 62 suspended or reduced.

These figures represent the disciplinary measures taken by the Department, and though the totals appear formidable, the figures would probably compare favourably with those of any other department, considering the conditions under which the men work; the men necessarily are left for the greater portion of the year with only their own sense of duty as a spur to exertion. Only two men were criminally convicted during the year. The districts showing the highest number of punishments were Akyab, Myingyan, Minbu, Hanthawaddy, and Pegu; four of these have very large staffs. One case of fraud was detected in the Kyaukse District. The surveyor concerned has been convicted, and the Inspector in charge suspended, while the departmental enquiry against him is proceeding.

CHAPTER IV.

TRAINING OF OFFICERS.

Statement XI.

20. *Survey Schools.*—At the end of March 1914 there were 18 survey schools, one less than in the previous year. The Insein school remains on the list but control was transferred to the Headmaster of the Government School of Engineering at Insein in August 1913. The Prome school was closed in October 1913. The total number of pupils on the rolls of the 18 schools at the close of the school term in March 1914 was 254 as against 314 on the rolls a year earlier. The nett cost of Survey schools was Rs. 34,935 as against Rs. 35,756 in the year previous. The cost per pupil as based on the attendances for the entire school term was Rs. 133.

The results obtained at the Syndicate Examination of April 1914 were not up to the average standard. In surveying the percentage of passes was the lowest on record for many years past, being only 43 per cent. The schools which did worst in Survey were those of Akyab, Kyaukpyu, Pegu, Bassein, Henzada, Ma-ubin, Toungoo, Tavoy, Pakôkku, Minbu, Meiktila and Yamèthin, where in the opinion of the examiners, the paucity of passes was due to defective tuition. The Superintendents and Teachers have been informed of this and warned that there must be better results in future. In arithmetic the percentage of passes was only 57 per cent. against 71 per cent. for last year. In revenue the results were an improvement on last year. The Amherst school did well. The schools of Upper Burma were again more successful than those of Lower Burma, the Katha, Shwebo, Mandalay, and Mônywa schools having done particularly well all round. The "Clancey" medal was won by a pupil of the Katha school which also accounted a second time for the pupil who topped the list for Burma in all three subjects. All the schools were inspected by one or other of the administrative officers. The local Superintendents inspected the school periodically, but they should do more to see that tuition is less mechanical and that pupils are taught to use their heads.

21. *Training of Apprentices.*—The prescribed examination for apprentices was not held in Rangoon Town, Syriam, Prome, Pyapôn, Tavoy, Thayetmyo,

Mandalay Town, Katha, Kyauksè and Yamèthin. No reasons were given by the Superintendents of Rangoon Town or Pyapôn for their failure; in most other districts it appears that the apprentices who should have appeared for the examination were acting in survey charges and could not be called in. The Superintendents have been advised to act in these cases under paragraph 86 of the Land Records Manual. Out of 181 apprentices presenting themselves for examination 124 were successful and 57 failed to qualify. In the majority of cases the men who appeared had served two years, the maximum period of apprenticeship. There appears to be a considerable difference in the standard set at the examination by different Superintendents of Land Records, and it is not unusual to hear complaints from Superintendents that they find on their staff surveyors who are unable to survey a whole *kwin*, although they are certificated under paragraph 94 of the Land Records Manual. In Myaungmya and Ma-ubin the examinees were rightly set whole *kwins* to survey or large blocks of from 200—300 acres. Seven of the boys at the Myingyan Survey examination were caught 'cribbing' and their names have been struck off the list. Inspectors encourage their own hangers-on and do not take sufficient interest in their apprentices.

22. *The Qualifications and Training of the Subordinate Staff.*—The preliminary training at the beginning of the field season should be carried out in two parts as contemplated by paragraphs 99 and 100 of the Land Records Manual, but the reports from only 11 districts state definitely that paragraph 100 was observed. No training under paragraph 99 was given in the Myingyan District, and it seems probable from the reports furnished by the Rangoon Town, Bassein, Henzada, Magwe, and Sagaing Districts that these districts also failed to comply. In Akyab and Yamèthin the training was only partial, but in the case of the latter district a camp for training in cadastral survey was formed as the men were more inefficient in survey than in clerical work. Only 13 districts formed classes for training in theodolite traversing; the results obtained were not encouraging. The question of restricting the theodolite training to selected men and giving more attention to cadastral training is under consideration.

23. *Training of Probationer Assistant Superintendents.*—The instruction camp at Tavoy was abolished and Mr. C. S. Littlewood, on deputation from the Survey of India Department as the Survey Instructor, reverted to his department at the end of July 1913. On the closing of the Tavoy camp the two probationers, Messrs. Kong Mein and Nicholas, who had received a training in cadastral surveying at this camp since November 1912, were transferred to No. 10 Survey of India Party (Eastern Circle) at Maymyo, to continue their training in Topographical surveying. This they concluded on the 28th May 1914 when they were posted for training in Land Records work to the Shwebo and Yamèthin Districts, respectively. Both probationers have been certified by the Officer-in-charge of No. 10 Party to have made good use of their training and to be fairly proficient.

Meanwhile a local scheme to replace the abandoned Dehra Dun training was devised and submitted with detailed instructions under paragraphs 115 and 127 of the Land Records Manual for the orders and sanction of the Local Government. The revised scheme provides for a survey training of eighteen months under the Special Superintendent of Land Records in charge of local Agency Surveys, Burma, followed by a training in Land Records work for twelve months under a selected Superintendent of Land Records in an Upper Burma dry zone district.

During the year three new Probationer Superintendents were appointed to fill existing vacancies and assumed charge of their duties in survey training with the Superintendent in charge of Special Survey party in November 1913. They accompanied the section of the party sent to carry out the extension survey operations in the Thayetmyo District and remained in camp engaged in 16″ rural surveys till March 1914 when the training camp was moved to Insein for the survey of urban areas. While in the training camp in the Thayetmyo District the three probationers were put through their preliminary course in the use of the theodolite and plane-table; they were also taught to observe for azimuth and were made acquainted with all the connected traverse and azimuth computations; finally each of them was required to execute an independent survey of an entire

kwin. The surveys were duly partalled by the Officer-in-charge and being found of good quality the party has taken credit for them. At Insein training was given in traversing and detail 64″ urban survey. The instruction camp was inspected by the Assistant Director. On the whole the officers appear to have received a fair training so far.

24. *Training of Civil Officers in Survey and Land Records work.*—Five officers from the Commission, three Extra Assistant Commissioners and twenty Myoôks were trained in Survey and Land Records work during the year.

CHAPTER V.

ADMINISTRATION AND GENERAL.

25. *Gazetted Staff.*—Mr. H. M. S. Mathews, C.S.I., was in charge of the Department throughout the year. The Deputy Director, Mr. T. Couper, M.A., I.C.S., went on leave in November 1913 and Mr. D. F. Chalmers, I.C.S., has since acted for him. The post of Assistant Director was held by Mr. J. Haddock throughout the period of report. The cadre of the superior Land Records service was three short on the 1st July 1913, and when the special Survey Party was ready to receive officers for training, three probationers were appointed to fill the vacancies. Five officers were on long leave at various times during the year. Two officers Maung Tha Hlaing and Maung Po U of the Subordinate Civil Service were employed at the beginning of the year in the smaller district charges of Sandoway and Mergui but the Department relinquished their services shortly afterwards when the two Superintendents who were completing their survey training returned to their regular duties. Towards the close of the year it was again necessary to requisition the services of Maung Po U. He was posted to the district charge of Tavoy, the Superintendent whom he relieved being required for charge of mining survey operations. At the close of the year owing to the retirement of Maung Do Kaing the cadre was one short and nominations for filling the vacancy were made.

26. *Replacement of Taik-thugyis by Revenue surveyors.*—Deaths and retirements among *taik-thugyis* have now reduced the number of these officials to 62. In the Amherst District five out of the six remaining *taik-thugyis* were relieved of responsibility for the upkeep of supplementary survey.

27. *Famine.*—Although the rice crop was not so good as in 1912-13 agricultural conditions were generally favourable and no special relief measures were necessary. Prices of food grains were lower. Agricultural advances were freely given.

28. *General.*—The rice crop forecast of 1912-13 estimated an exportable surplus of 2,620,000 tons of cargo rice but the actual exports at the end of 1913 were 2,944,400 tons. The failure to get closer to actuals in this forecast was a disappointment. The finally revised forecast of 1913-14 gives the exportable surplus of 1914 at 2,600,000 tons. Forecasts were also issued for the cotton and groundnut crops.

From the two districts of Hanthawaddy (Syriam) and Insein some 75 *kwin* maps have been forwarded to the press to have the soil class boundaries and symbols printed in colour. The work has been satisfactorily done and over 1,000 "pulls" had been returned to Syriam before the end of the year. The press is preparing to deal with the maps of other districts similarly.

H. M. S. MATHEWS,
Commissioner of Settlements and Land Records, Burma.

RANGOON, *the 10th September 1914.*

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STATEMENT No. I.—*Area under, and cost of, Demarcation preliminary*

Tract.		Staff.			
District.	Township.	No.	Class.	Pay.	Whether Special or Local Staff.
1	2	3	4	5	6
				Rs.	
Kyaukpyu ...	An, Kyaukpyu, Ramree Myebôn.	5	...	166	Special ...
Thayetmyo ...	Thanbulla ...	5	...	126	Do. ...
Total for 1913-14 ...	.....	10	...	292	...
Total for 1912-13 ...	.....	...	...	...	...

STATEMENT No. II.—*Area under, and cost of, Revision*

Tract.		Traverse (Field).									Cadastral		
						Mathematical results.		Staff.			*Kwins.*		
District.	Township.	Sub-surveyors.	Period.	*Kwins.*	Area.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computers.	Period.	Whole.	Part.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		No.	Months.	No	Sq. mls.	Seconds	Links.	No.	No.	No.	Mnths.	No.	No.
Akyab ...	...	3	6	116	184	·023	·193	3	18	4	6	116	...
Sandoway ...	...	2	5	21	23	1·50	0·02	1	5	...	6	21	...
Total for 1913-14	...	5	6	137	207	0·761	0·107	4	23	4	6	137	...
Total for 1912-13	...	4	6	107	...	·08	0·017	4	24	...	6	162	...

STATEMENT No. III.—*Area under, and cost of, Extension*

Tract.		Traverse (Field).							Staff.			
							Mathematical results.					
District.	Township.	Sub-Surveyors.	Period.	*Kwins.*	Area.	Azimuths observed.	Average angular error per station.	Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computers.	Period.
1	2	3	4	5	6	7	8	9	10	11	12	13
		No.	Months.	No.	Acres.	No.	Secs. decs	Links. decs.	No.	No.	No.	Months.
Kyaukpyu ...	...	4	7	94	23,172	2	1·50	0·02	1	5	4	6
Thayetmyo ...	...	3	6	122	78,173	8	·52	·18	3	14	3	6
Total for 1913-14	...	7	6½	216	101,345	10	1·01	0·10	4	19	7	6
Total for 1912-13	...	...	...	...	...	...	....	...	...	...	...	...

to Original Cadastral Survey outside towns in 1913-14 (Paragraph 2).

Period employed.	Area demarcated.		Cost of demarcation (if any).			Remarks.
	Gross.	Occupied.	Total.	Per square mile gross.	Per occupied acre.	
7	8	9	10	11	12	13
Months.	Sq. miles.	Acres.	Rs.	Rs. A.	Rs. A.	
4	36	16,254	914	25 6	0 1	
6	202	18,970	1,311	6 8	0 1	Col. 10 includes T. A. of staff.
10	238	35,224	2,225	9 6	0 1	
...	...	...	...	...	...	

Surveys (by Special Staff only), in 1913-14 (Paragraph 3).

(Field).							Cadastral (recess).		Cost (field and recess).			
Area.		Fields.		*Kwins* holding marked.	*Kwins* partalled		Inspectors, Draughtsmen, Computers, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	Remarks.
Gross.	Occupied.	No.	Average size.		By Superintendent.	By Inspectors.						
15	16	17	18	19	20	21	22	23	24	25	26	27
Sq. mls.	Acres		Acres.	No.	No.	No.	No.	Months.	Rs.	Rs. A.	Rs. A.	
184	72,580	316,163	0·23	...	26	116	21	6	16,842	91 8	0 3	
23	7,130	41,585	0·17	...	...	21	6	6	7,639	332 2	1 1	
207	79,710	357,748	0·221	...	26	137	27	6	24,481	118 4	0 5	
268	112,836	264,700	0·42	...	64	150	31	6	33,087	119 11	0 4	

Surveys (by Special Staff only), in 1913-14 (Paragraph 4).

Cadastral (Field).								Cadastral (recess).		Cost (field and recess).			
Kwins.	Area.		Fields.		*Kwins* holding marked.	*Kwins* partalled		Inspectors, Draughtsmen, Computers, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	Remarks.
	Gross.	Occupied.	No.	Average size.		By Superintendent.	By Inspectors.						
14	15	16	17	18	19	20	21	22	23	24	25	26	27
No.	Sq. mls.	Acres.		Acs. dcs.	No.	No.	No.	No.	Months.	Rs.	Rs. A.	Rs. A.	
94	36·21	16,254	24,918	0·65	...	8	94	8	6	11,507	319 10	0 11	
122	122·00	19,182	45,897	·42	...	40	120	18	6	17,152	140 9	0 14	
216	158·21	35,436	70,815	0·50	...	48	214	26	6	28,659	181 3	0 13	
12	8·28	2,662	30,580	·17	...	6	12	...	...	...	...	...	

STATEMENT NO. IV.—*Area under, and cost of, Demarcation*

District.	Demarcation.					Traverse (Field).			
	Demarcation Officers.	Period.	Towns.	Area.	Cost.	Sub-Surveyors.	Period.	Towns.	Area.
1	2	3	4	5	6	7	8	9	10
		Months.		Sq. miles.	Rs.		Months.		Sq. miles.
Rangoon Town ...	...	...	...	...	...	1	7	1	3·07
Insein	1	1½	1	·06	200	...	...	...	...
Total for 1913-14 ...	1	1½	1	·06	200	1	7	1	3·07
Total for 1912-13 ...	2	4	4	3	753	1	3	1	2·00

STATEMENT NO. V.—*Area under, and cost of, Demarcation and*

N

STATEMENT NO. VI.—*Area under, and cost of, Potta*

Tract.	Special Potta Myoôks.										Pot	
District.	No.	Period.	Grant cases.				Cost.	Staff.		Period.	For Survey.	
			For disposal.		Disposed of			Inspectors.	Surveyors.		No.	Area.
			No.	Area.	No.	Area.						
1	2	3	4	5	6	7	8	9	10	11	12	13
		Months.		Acres.		Acres.	Rs.	No.	No.	Months.		Acres.
Akyab	...	...	...	...	...	...	..	...	1	3	33	836
Kyaukpyu	...	...	...	...	...	...	...	...	6	7	400	3,990
Sandoway	...	...	...	...	..	..	...	...	3	11	37	16
Amherst	...	...	...	...	...	...	...	...	5	6	108	3,092
Tavoy	...	...	...	...	...	...	...	...	3	6	72	741·34
Mergui	...	.	...	...	...	...	...	1	7	7	321	2,671
Minbu	...	...	...	...	...	...	...	...	1	4½	...	...
Total for 1913-14 ...	...	...	...	...	...	...	...	1	26	6—11	971	11,346·34
Total for 1912-13 ...	1	3	845	8,450	582	5,820	672	2*	5½	3—11	2,857	57,054

* Revised

and Survey of Town Lands in 1913-14 (Paragraph 5).

Survey.									
Cadastral (Field).						Recess.		Cost (Field and Recess).	Remarks.
Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Towns.	Area.	Inspectors, Draughtsmen and Computors.	Period.		
11	12	13	14	15	16	17	18	19	20
			Months.		Sq. Miles.		Months.	Rs.	
...	4	...	6	1	3·44	5	6	6,462	
...	1	1	1½	1	·06	1	1½	200	
..	5	1	...	2	3·50	6	...	6,662	
...	2	...	...	1	0·35	2	...	2,875	

Survey of Fisheries (by Special Staff only) in 1913-14 (Paragraph 6).

il.

Surveys (by Special Staff only), in 1913-14 (Paragraph 7).

Survey.						Plots Checked				Remarks.
tas.		Fees.		Cost.		By Superintendent.		By Inspectors.		
Surveyed.		Rate per acre.	Amount realized.	Contract system.	Regular pay.	No.	Area.	No.	Area.	
No.	Area.									
14	15	16	17	18	19	20	21	22	23	24
	Acres.	A. P.	Rs.	Rs.	Rs.		Acres.		Acres.	
33	836	8 0	418	418	...	...	...	...	...	
390	3,990	8 0	3,100	4,242	...	...	...	101	1,959	
37	16	8 0	197	134	...	...	...	...	65	
84	2,419	1 to 8	993	463	...	...	...	74	1,940	
56	272·12	8 0	135	135	...	...	...	18	85·92	
298	3,222	8 to 1-8-0	2,744	1,182	277	...	...	145	2,330	
194	1,298	8 0	29	...	214	..	...	...	...	
1,092	12,053·12	2 as. to 1-8-0	7,616	6,574	491	...	...	338	6,379·92	
2,758	57,836	2 as. to 1-8-0	22,418	11,647	4,101	99	1,871	888	12,394	

figures.

STATEMENT No. VII.—*Area under Supplementary*

District.	Supplementary Survey in Rural Areas.					
	No. of *Kwins*.	Total area.				Total assessment (including cess in Lower Burma) on the area in column 4.
		Under Supplementary Survey.	Under occupation.	Under cultivation.	Under assessment.	
1	2	3	4	5	6	7
	No.	Sq. miles.	Acres.	Acres.	Acres.	Rs.
Akyab	1,313	2,090	717,726	633,081	716,775	19,93,484
Kyaukpyu	792	814	182,426	172,687	176,112	3,04,165
Sandoway	291	268	58,642	56,042	58,066	1,12,204
Rangoon Town	...	...	..	...	...	...
Insein	1,114	1,347	544,482	518,674	538,076	19,05,457
Hanthawaddy (Syriam) ...	929	1,606	824,260	793,647	824,260	31,35,861
Tharrawaddy	599	1,268	498,824	406,609	498,824	12,77,821
Pegu	1,205	2,106	781,985	760,388	779,631	20,96,663
Prome	1,026	1,714	368,431	349,517	368,332	6,25,281
Bassein	1,269	2,216	733,397	679,542	732,518	17,86,086
Henzada	909	1,788	586,654	564,857	586,585	15,34,842
Myaungmya	1,071	1,816	674,887	634,883	672,793	22,22,503
Ma-ubin	592	1,643	461,676	431,133	459,953	15,82,433
Pyapôn	845	1,284	652,064	631,570	652,062	22,21,913
Toungoo	772	1,470	429,383	399,082	413,171	9,07,477
Thatôn	1,707	2,389	697,714	650,045	655,959	15,08,805
Amherst	1,240	1,738	495,984	431,703	490,247	10,69,941
Tavoy	486	460	123,839	117,899	122,585	3,20,887
Mergui	638	588	95,922	80,827	91,337	2,47,014
Thayetmyo	711	1,229	166,110	126,243	123,053	2,00,973
Pakôkku	1,892	3,002	744,776	459,143	439,077	4,87,332
Minbu	877	1,418	454,975	250,016	223,176	7,26,832
Magwe	2,211	2,717	950,724	401,717	339,997	3,80,920
Mandalay Town	11	9	4,725	4,114	3,843	19,551
Mandalay	760	688	256,379	176,836	168,941	8,41,672
Katha	1,953	1,084	200,816	174,774	157,143	2,00,624
Shwebo	3,649	3,680	1,032,785	666,769	593,991	14,41,693
Sagaing	1,180	1,822	757,838	509,531	469,819	4,82,477
Lower Chindwin	1,606	2,540	792,803	480,501	446,232	4,36,528
Upper Chindwin	188	108	47,981	33,185	32,830	39,088
Kyaukse	642	567	256,420	184,832	167,945	8,38,105
Meiktila	1,742	1,402	626,848	354,241	300,937	4,04,188
Yamèthin	1,910	1,682	515,732	367,677	306,145	5,88,731
Myingyan	2,832	2,899	1,225,156	703,526	618,596	4,50,326
TOTAL FOR 1913-14 ...	38,962	51,452	16,954,364	13,203,291	13,229,011	3,23,91,877
TOTAL FOR 1912-13 ...	38,671	51,330*	16,781,119	13,033,073*	13,005,143*	3,15,79,905

*Revised

† Includes 1,887 acres

Survey for the year 1913-14 (Paragraphs 8 and 9).

Supplementary Survey in Towns.							Total area under Supplementary Survey.	Total area occupied.	Total assessment.	Remarks.
No. of Towns.	No. of Blocks.	Total area. Gross area.	Occupied area in Town Register I.	Area under Government assessment.	Total Land Revenue and Rent and Land Rate.	Municipal assessments for which Surveyors prepare rolls.				
8	9	10	11	12	13	14	15	16	17	18
No.	No.	Sq. miles.	Acres.	Acres.	Rs.	Rs.	Sq. miles.	Acres.	Rs.	
1	10	5	1,885	1,664	15,136	65,697	2,095	719,611	20,74,317	
1	6	1	364	298	2,433	...	815	182,790	3,06,598	
1	6	1	164	124	277	3,546	269	58,806	1,16,027	
1	52	30	13,097	8,486	5,86,035	...	30	13,097	5,86,035†	
15	51	8	3,175	3,175	20,501	...	1,355	547,657	19,25,958	
7	98	7	2,967	2,967	29,702	6,742	1,613	827,227	31,72,305	
12	62	16	7,231	7,145	43,693	...	1,284	506,055	13,21,514	
16	95	12	4,420	4,420	49,513	...	2,118	786,405	21,46,176	
7	35	9	5,131	3,627	30,336	3,205	1,723	373,562	6,58,822	
6	68	19	7,243	6,721	47,000	4,062	2,235	740,640	18,37,148	
10	98	16	6,229	5,741	17,464	...	1,804	592,883	15,52,306	
6	62	4	1,475	1,305	12,085	5,293	1,820	674,362	22,39,881	
5	61	5	1,866	1,774	11,176	27,505	1,648	463,542	16,21,114	
5	234	6	2,689	1,995	17,399	...	1,290	654,753	22,39,312	
10	39	12	3,315	3,302	33,682	46,141	1,482	432,698	9,87,300	
9	246	13	5,025	3,401	12,211	2,670	2,402	702,739	15,23,686	
3	120	20	8,341	6,308	29,816	...	1,758	504,325	10,99,757	
1	30	9	3,848	3,606	12,384	...	469	127,687	3,33,271	
2	143	2	998	851	4,397	29,015	590	96,920	2,80,426	
2	14	2	909	783	10,053	...	1,231	167,019	2,11,026	
1	51	4	362	61	945	10,551	3,006	745,138	4,98,828	
4	35	3	1,480	547	3,370	9,683	1,421	456,455	7,39,885	
3	24	4	1,258	...	4,791	5,056	2,721	951,982	3,90,767	
1	901	10	6,597	2,708	21,958	2,47,348	19	11,322	2,88,857	
1	19	7	1,496	1,406	3,619	33,076	695	257,875	8,78,367	
6	60	2	881	329	5,820	...	1,086	201,697	2,06,444	
16	44	4	1,173	283	4,256	...	3,684	1,033,958	14,45,949	
3	13	3	1,241	753	4,086	2,149	1,825	759,079	4,88,712	
2	23	2	851	227	1,560	5,360	2,542	793,654	4,43,448	
...	...	...	...	...	...	...	108	41,981	39,088	
...	...	...	...	...	...	...	567	256,420	8,38,105	
4	...	5	1,060	1,048	4,837	13,012	1,407	627,908	4,22,037	
...	...	...	...	...	3,478	...	1,682	515,732	5,92,209	
2	57	4	1,094	82	2,832	14,978	2,903	1,226,250	4,68,136	
163	2,757	245	97,865	75,137	10,46,845	5,35,089	51,697	17,952,229	3,39,73,811	
162	12,727	243	93,651	74,762	10,33,819*	4,64,868	*51,573	16,876,770	3,30,74,592*	

figures.
devoted to other uses.

STATEMENT No. VIII.—*Cost of Supplementary*

District.	Superintendence and Inspection.				Supplementary Survey Field Number of Survey Charges.				
	Pay and Travelling Allowance of Superintendent and Assistant Superintendent, if any.	Number of Inspectors.	Pay and Travelling Allowance of Subordinate Inspecting and Clerical Establishment.	Total cost (column 2 *plus* column 4).	Revenue Surveyors' Charges, Rural.	Revenue Surveyors' Charges, Urban.	Revenue Surveyors' Charges, partly Rural and partly Urban.	Survey Charges, in *Taiks*.	Survey Charges partly in *Taiks* and partly in Revenue Surveyors' charges.
1	2	3	4	5	6	7	8	9	10
	Rs.	No.	Rs.	Rs.	No.	No.	No.	No.	No.
Akyab	8,025	7	12,102	20,127	84	...	...	3	...
Kyaukpyu ...	5,006	4	6,212	11,218	17	..	1	5	6
Sandoway ...	3,957	3	5,103	9,060	11	...	...	..	2
Rangoon Town ...	7,920	2	8,716	16,636	...	13	...	...	...
Insein	11,544	5	11,662	23,206	34	1	8	11	...
Hanthawaddy (Syriam).	10,475	7	13,474	23,949	58	...	7	12	...
Tharrawaddy ...	5,098	6	8,798	13,896	38	...	12	10	...
Pegu	8,060	8	12,867	20,927	64	2	15	...	...
Prome	6,557	5	6,702	13,259	44	3	6	4	2
Bassein ...	8,491	9	15,705	24,196	64	7	...	8	...
Henzada ...	5,825	6	9,953	15,778	49	2	8	13	...
Myaungmya ...	4,533	6	10,739	15,272	52	...	6	7	...
Ma-ubin ...	5,145	5	9,361	14,506	47	...	5	2	...
Pyapôn ...	6,013	7	12,811	18,824	63	...	4	4	...
Toungoo ...	4,785	5	8,077	12,862	31	2	11	2	...
Thatôn ...	7,932	8	12,657	20,589	74	3	2	2	...
Amherst ...	7,960	6	10,904	18,864	52	4	2	3	3
Tavoy ...	3,818	3	5,672	9,490	16	2	1	3	...
Mergui ...	4,831	3	6,078	10,909	20	...	2	...	...
Thayetmyo ...	6,219	4	6,253	12,472	25	1	6	...	4
Pakôkku ...	7,143	9	13,173	20,316	71	...	1	...	..
Minbu ...	7,267	6	8,723	15,990	51	2	...	...	...
Magwe ...	6,472	8	11,620	18,092	73	...	3	...	...
Mandalay Town ...	4,765	2	5,789	10,554	1	13	...	...	...
Mandalay ...	7,032	5	8,940	15,972	47	2	...	...	...
Katha ...	4,748	5	7,871	12,619	33	..	6	...	...
Shwebo ...	10,092	12	17,355	27,447	102	...	16	...	...
Sagaing ...	6,502	8	12,587	19,089	69	...	...	...	...
Lower Chindwin ...	6,045	7	10,549	16,594	61	...	2	...	...
Upper Chindwin ...	3,943	1	3,389	7,332	8	...	...	...	...
Kyauksè ...	4,015	6	9,100	13,115	45	..	...	...	...
Meiktila ...	4,438	5	7,882	12,320	54	1	...	...	...
Yamèthin ...	5,697	6	9,136	14,833	66	11	...	...	...
Myingyan ...	5,213	8	11,069	16,282	74	...	1	...	...
TOTAL FOR 1913-14	2,15,566	95	3,31,029	5,46,595	1,592	60	125	89	17
TOTAL FOR 1912-13	2,04,304	197	3,32,531	5,36,835	1,573*	64*	123*	105*	16

* Revised

(a) Inclusive of Rs. 420 for temporary

Survey Staff in 1913-14 (Paragraph 10).

Staff.			Contingencies and Supplies and Services.	Total cost of Supplementary Survey.	Average Cost					Remarks.
							Of Supplementary Survey			
Number of Surveyors without local Charges.	Number of periodical Surveyors.	Total cost of field Supplementary Survey Staff.			Of Supervision and Inspection, per square mile.	Of Supplementary Survey field staff, per square mile.	Per square mile.	Per occupied acre.	Per cent. of total assessment.	
11	12	13	14	15	16	17	18	19	20	21
No.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ans.	Per cent.	
1	...	42,376	1,940	64,443	9·60	20·23	30·76	1·433	3·11	
...	1	12,524(*a*)	1,889	25,631	13·76	15·37	31·45	2·243	8·36	
...	1	6,310	952	16,222	33·68	23·46	60·68	4·440	14·06	
5	...	21,514*	1,484	39,634	554·53	717·13	1333·13	48·419	6·76	Includes Rs. 6,462, cost of flying column.
...	...	30,646	4,453	58,305	17·12	22·62	43·03	1·703	3·03	
...	...	41,887	2,944	68,780	14·85	25·97	40·64	1·330	2·17	
...	2	31,630	1,212	46,738	10·82	24·63	36·40	1·478	3·54	
...	...	47,379	3,315	71,621	9·88	22·37	33·80	1·457	3·34	
...	..	31,727	1,800	46,786	7·69	18·41	27·15	2·004	7·10	
...	...	40,386	2,647	67,229	10·83	18·07	30·08	1·452	3·65	
4	...	36,834	3,249	55,861	8·75	20·42	30·97	1·508	3·60	
...	...	36,614	5,175	57,061	8·39	20·12	31·35	1·354	2·55	
...	2	29,021	2,994	46,521	8·80	17·61	28·23	1·606	2·87	
...	...	39,438	1,573	59,835	14·59	30·57	46·38	1·462	2·67	
...	...	23,927	1,428	38,217	6·68	16·14	25·79	1·413	3·87	
...	2	41,887	2,195	64,671	8·57	17·44	26·93	1·472	4·24	
...	...	30,989	2,029	51,882	10·73	17·63	29·51	1·646	4·72	
1	...	12,823	1,902	24,215	20·23	27·34	51·63	3·034	7·27	
...	...	12,029	576	23,514	18·49	20·39	39·85	3·882	8·39	
...	...	14,596	1,374	28,442	10·13	11·86	23·10	2·725	13·48	
...	15	31,022	2,515	53,853	6·76	10·32	17·91	1·156	10·80	
3	4	19,703	2,238	37,931	11·25	13·87	26·69	1·330	5·13	
...	5	29,899	1,941	49,932	6·65	10·99	18·35	0·839	12·78	
...	13	7,839	1,200	19,593	555·47	412·58	1031·21	26·810	6·78	
3	4	23,843	1,122	40,937	22·98	34·31	58·90	25·40	4·66	
...	...	20,178	1,595	34,392	11·62	18·58	31·67	2·728	16·66	
...	16	51,927	2,360	81,734	7·45	14·10	22·19	1·264	5·65	
...	...	28,702	1,926	49,717	10·46	15·73	27·24	1·048	10·17	
...	3	26,692	1,996	45,282	6·53	10·50	17·81	0·913	10·21	
...	...	4,501	452	12,285	67·89	41·68	113·75	4·682	31·43	
3	..	19,778	975	33,868	23·13	34·88	59·71	2·113	4·04	
...	...	22,459	1,595	36,374	8·75	15·96	25·85	0·927	8·62	
...	...	25,862	2,307	43,002	8·82	15·38	25·57	1·334	7·26	† Employed in the survey of leases, relating to Railway Towns.
...	10	30,416	1,667	48,365	5·61	10·48	16·66	0·631	10·33	
20	78	9,27,358	69,020	15,42,973	10·57	17·94	29·85	1·447	4·54	
10	90	9,37,490	73,996	15,48,321	10·41*	18·18*	30·02*	1·468	4·68	

figures.

chainmen employed for 3 months.

STATEMENT No. IX.—*Supplementary Survey*

District.	Number of *kwins* in the District under Supplementary Survey.	Number of *kwins* under Supplementary Survey in which the field work was tested.											Total number of *kwins* inspected by all Inspecting Officers.
		By District Officers.						By the Land Records Staff.					
		Deputy Commissioner.	Subdivisional Officers.			Township Officers.			Superintendent.	Inspectors.			
			Number of Officers.	Number of *kwins* checked.	Average.	Number of Officers.	Number of *kwins* checked.	Average.		Number of Inspectors.	Number of *kwins* checked.	Average.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Akyab*	1,313	5	4	38	9	9	73	8	158	7	616	88	869
Kyaukpyu ...	792	2	1	4	4	5	46	9	107	4	337	84	416
Sandoway (*k*) ...	291	4	...	...	...	3	20	7	73	3	224	75	225
Rangoon Town ...	*52*	...	...	...	...	...	...	..	*21*	*2*	*42*	*21*	*42*
Insein	1,163	5	2	9	9	4	11	5	70	5	546	109	512
Hanthawaddy (Syriam)(*h*)	929	2	2	22	11	6	39	6	99	7	689	98	689
Tharrawaddy ...	599	...	2	35	18	6	53	9	36	6	445	83	445
Pegu	1,205	...	2	11	5	5	22	4	62	8	871	108	966
Prome	1,026	10	3	24	8	7	46	7	162	5	631	128	665
Bassein (*f*)	1,269	3	2	7	4	6	45	8	197	8	666	83	921
Henzada ...	905	...	1	10	5	6	14	2	111	6	595	99	706
Myaungmya ...	1,071	4	2	14	7	4	73	18	102	6	605	101	644
Ma-ubin (*g*)... ...	592	58	2	45	22	4	51	13	107	5	450	90	592
Pyapôn (*p*)	845	...	3	8	3	5	47	9	103	7	646	92	804
Toungoo	772	...	3	32	10	7	55	7	114	5	362	72	506
Thatôn	1,707	4	3	50	17	6	89	15	104	8	957	120	1,091
Amherst (*a*)	1,240	6	3	10	3	8	29	4	83	6	528	88	618
Tavoy (*b*)	486	4	...	...	4	4	35	9	35	3	326	109	354
Mergui	638	...	2	10	5	4	25	6	66	3	240	80	305
Thayetmyo (*d*) ...	711	3	2	5	2	6	46	8	155	4	360	90	515
Pakôkku (*e*) ...	1,892	9	2	14	7	5	98	19	72	9	1,257	140	1,450
Minbu (*c*)	877	2	2	2	1	5	26	5	78	6	523	87	457
Magwe (*m*)	2,211	11	2	6	3	6	72	12	93	8	1,254	157	1,022
Mandalay Town ...	....	...	...	...	...	...	...	...	...	...	..	...	...
Mandalay	760	...	2	12	6	4	20	5	103	5	576	115	577
Katha	1,953	..	3	57	19	7	49	7	166	5	688	137	921
Shwebo (*l*)	3,649	7	3	62	21	9	365	40	221	12	1,708	142	1,089
Sagaing (*i*)	1,180	...	2	113	55	6	191	31	93	8	1,020	128	825
Lower Chindwin ...	1,606	10	2	46	23	5	143	28	143	7	917	130	1,176
Upper Chindwin ...	188	2	1	61	61	1	21	21	79	1	112	112	152
Kyaukse	612	9	2	14	7	3	36	18	72	6	669	111	517
Meiktila ...	1,742	1	2	21	10	4	53	13	122	5	1,110	222	865
Yamèthin (*j*) ...	1,910	21	2	22	11	5	104	21	66	6	505	84	677
Myingyan (*o*) ...	2,832	2	2	50	25	6	121	20	108	8	1,353	169	1,394
TOTAL FOR 1913-14 ...	39,048	177	66	814	13	171	2,118	9	3,381	194	21,828	108	23,905
TOTAL FOR 1912-13 ...	38,774†	282	68	1,100	15	169	2,032	12	3,259	191	20,849	105	23,215

* Revised

† Superintendent of Land Records and Assistant Superintendent of

(*a*) Superintendent of Land Records inspected

(*b*) Superintendent of Land Records inspected 5 blocks

(*c*) Superintendent of Land Records inspected

(*d*) Superintendent of Land Records inspected 2 blocks and

(*e*) Superintendent of Land Records inspected 5 blocks and

(*f*) Superintendent of Land Records inspected 11 blocks

(*g*) Superintendent of Land Records inspected 19 blocks and

(*h*) Superintendent of Land Records inspected 22 blocks and

(*i*) Superintendent of Land Records inspected 4 blocks and

(*j*) Includes 14 *Kwins* inspected for purposes of altering soil

(*k*) Superintendent of Land Records inspected 1 block and

(*l*) Superintendent of Land Records inspected

(*m*) Superintendent of Land Records inspected

(*n*) Superintendent of Land Records

(*o*) Forty-three blocks

(*p*) Superintendent of Land Records inspected 20 blocks

Inspections for the year 1913-14 (Paragraph 12).

Abstract of errors discovered by the Land Records Staff.															
Errors affecting assessments.							Statistical errors.					Number of holdings.			Remarks.
Total number of errors in			Results of correction of errors.				Total number of errors in								
			Increase.		Decrease										
Area of extensions.	Crop marking.	Assessment.	Area.	Revenue.	Area.	Revenue.	Holding marking.	Crop marking.	Survey of interior details.	Record.	Total number of statistical errors.	In the *kwins* inspected.	Inspected in these *kwins*.	Found correct.	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
			Acres.	Rs.	Acres.	Rs.									
384	295	...	114	388	111	284	775	295	6,642	1,723	9,435	59,682	18,659	12,196	
163	713	1	186	240	49	77	783	450	977	593	2,803	54,644	13,882	11,851	
169	...	1	16	26	2	4	128	1,105	1,134	432	2,799	21,492	4,758	28,005	
...	...	...	...	...	...	...	...	...	...	...	...	*2,180*	*560*	*396*	
17	...	3	166	443	16	76	299	33	2,625	475	3,432	19,652	7,545	5,855	
491	1,017	42	571	1,111	53	204	278	250	3,258	763	4,549	36,920	14,329	11,051	
127	165	28	77	171	112	227	291	114	2,878	604	3,887	64,501	13,187	10,518	
348	761	1	425	915	67	161	180	71	2,948	271	3,470	37,621	11,598	8,010	
192	933	...	60	101	9	52	584	14	842	933	2,373	113,471	30,215	27,538	
1,095	2,932	29	688	1,497	72	149	289	74	6,841	534	7,738	44,950	15,470	9,400	
260	1,597	101	233	522	27	76	1,209	1,597	3,816	1,584	8,206	109,375	25,507	8,951	
543	1,520	25	669	1,955	122	422	443	1,063	5,444	962	7,912	28,651	10,916	6,318	
143	170	17	216	957	66	216	899	836	3,548	1,894	7,177	46,168	16,430	10,489	
249	1,529	2	315	897	17	49	885	191	4,433	1,178	6,687	25,041	9,414	5,694	
75	145	1	53	97	21	35	366	1,090	1,697	1,203	4,356	33,901	12,459	9,151	
337	216	12	97	213	32	71	905	1,516	12,787	1,068	16,276	48,276	19,292	13,340	
307	2,946	7	384	651	10	36	371	431	4,007	714	5,523	31,985	14,306	10,087	
253	905	...	253	727	31	59	330	11	2,289	476	3,106	27,207	8,855	6,097	
30	...	30	58	152	5	8	139	192	1,175	275	1,781	12,320	5,632	4,312	
484	741	33	708	941	398	716	687	388	437	1,230	2,742	51,186	17,859	14,695	
129	1,700	96	380	633	248	382	721	2,134	441	1,752	5,048	206,245	42,016	35,651	
269	1,849	94	758	1,411	738	6,837	722	607	547	1,695	3,571	87,187	16,670	11,856	
176	841	13	510	501	388	363	953	448	1,051	1,016	3,468	136,827	44,596	41,192	
...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	
78	1,518	6	372	1,098	248	697	199	116	1,345	893	2,553	62,742	20,725	18,418	
602	3,759	1,159	230	262	354	287	1,456	1,339	4,170	855	7,820	16,318	13,133	9,107	
61	3,771	91	1,264	2,450	1,361	2,143	892	1,557	1,242	2,925	6,616	251,591	57,581	48,627	
141	1,364	...	1,031	1,141	584	685	965	1,275	940	5,915	9,095	187,079	42,061	32,964	
192	2,276	34	1,254	1,141	1,863	1,151	751	669	758	3,754	5,932	195,756	45,207	37,608	
48	35	...	24	33	25	33	27	35	383	223	668	20,687	6,753	5,789	
68	890	6	214	867	213	871	226	61	657	958	1,902	48,366	16,145	13,086	
8	3,797	...	543	703	1,204	1,504	278	1,254	621	2,518	4,671	155,692	44,535	38,369	
250	2,196	20	535	757	716	1,186	963	432	1,895	1,232	4,522	35,962	16,877	7,247	
229	1,849	...	1,034	609	817	715	956	1,194	860	2,671	5,681	150,786	47,909	40,516	
7,918	42,430	1,853	13,468	28,435	9,979	19,776	18,950	20,842	82,688	43,319	165,799	2,444,461	685,081	555,344	
14,324	41,592	1,640	17,111	31,157	7,683	12,988	16,481	17,559	88,478	32,473	154,991	2,288,199	630,789	493,661	

Figures.
Land Records inspected 2 *Kwins* each in Urban and Inspectors 10 *kwins*.
3 town blocks and Inspector 41 blocks.
and Inspector 10 blocks in the town.
2 blocks and Inspector 28 blocks in the town.
Inspector 4 blocks in the town.
Inspector 29 blocks in the town.
and Inspector 54 blocks in the town.
Inspectors 43 blocks in the town.
Inspectors 78 blocks in the town
Inspectors 4 blocks in the town.
classification in the Teniyet and Myaungmadaw Canal Tracts.
Inspectors 6 blocks.
3 blocks and Inspectors 16 blocks.
2 blocks and Inspectors 7 blocks.
inspected 11 blocks and Inspectors 24 blocks.
inspected by Inspectors.
and Inspectors inspected 20 blocks, Inspectors 26 blocks.

STATEMENT NO. X.—*Miscellaneous Surveys by the Local Staff in* 1913-14 (Paragraph 13).

District.	Survey of Grants and Leases.						Re-surveys and Extension Surveys by the Local Staff.					Holding Surveys of impermanent Island cultivation in unsurveyed tracts.				Remarks.
	Number.			Area.			Number of *kwins*.			Area Surveyed.		Number of Holdings.			Area Surveyed.	
	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed.	Checked by Inspector.	Checked by Superintendent.	Surveyed wholly or in part.	Checked by Inspector	Checked by Superintendent.	Gross area.	Cultivated area.	Surveyed.	Checked by Inspector.	Checked by Superintendent.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Acres.	Acres.	Acres.				Sq. Miles.	Acres.				Acres.	
Akyab ...	17	...	...	503	...	..	200	100	38	222	122,139	...	...	...	...	
Kyaukpyu ...	...	10	...	129·04	833·14	...	...	...	...	..	...	143	88	22	481	
Sandoway ...	...	...	...	...	...	...	22	19	9	10	3,914	...	...	...	...	
Rangoon Town	1,232	634	130	84	32	26	...	...	...	...	...	...	...	...	...	
Insein ...	...	...	...	...	...	...	42	24	10	25	12,649	...	...	...	...	
Hanthawaddy (Syriam).		...	...	...	...	...	9	8	4	2·54	5,398	...	...	...	...	
Tharrawaddy...	...	...	...	...	...	...	27	...	...	5·14	3,289	5,016	267	...	9,398	
Pegu ...	5	5	...	157	157	...	67	52	...	59	26,253	630	167	...	6,336	
Prome ...	...	...	...	...	...	...	49	17	10	26	8,619	3,018	85	...	6,275	
Bassein ...	...	...	...	...	...	...	84	14	8	25	13,056	...	...	...	...	
Henzada ...	43	21	11	6·33	2·18	...	67	26	8	76·29	42,837	10,316	884	170	22,893	
Myaungmya ...	80	48	3	37·53	21·53	·33	45	37	22	57	21,184	1,255	210	...	12,074	
Ma-ubin ...	...	...	...	...	...	...	29	29	10	38	24,249	...	...	...	...	
Pyapôn ...	...	...	...	...	...	...	56	43	6	31·94	18,379	1,258	137	38	7,924	
Toungoo ...	5	...	...	25	...	...	20	10	6	29	11,167	...	...	...	...	
Thatôn ...	...	...	...	...	...	...	30	30	2	40	10,746	...	244	...	2,437	
Amherst ...	41	41	...	227	227	...	80	60	15	42	16,577	...	...	...	...	
Tavoy ...	31	31	5	70·45	70·45	15	11	10	9	5	2,196	...	...	...	...	
Mergui ...	...	43	...	..	12·69	...	8	8	4	7	1,292	...	...	...	...	
Thayetmyo ...	18	...	...	99	...	...	...	...	...	...	...	296	...	...	663	
Pakôkku ...	89	63	10	113	25	15	481	221	50	57	24,032	30,131	3,328	358	51,243	
Minbu ...	...	...	...	...	...	...	21	7	7	26	9,737	571	71	...	793	
Magwe ...	...	...	..	...	...	...	101	12	...	2·65	1,563	3,515	1,199	468	2,648	
Mandalay Town	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mandalay ...	3	2	...	224	199	...	54	53	16	35	14,529	...	...	...	...	
Katha ...	118	...	...	31·18	...	3·16	181	4	10	18	6,201	703	35	...	1,321	
Shwebo ...	9	8	9	1,575	925	650	96	23	3	28·71	14,944	950	62	...	3,414	
Sagaing ...	194	71	...	39	20	...	21	14	3	21·82	9,428	6,519	1,625	87	23,593	
Lower Chindwin.	...	...	...	...	...	...	4	4	3	8·63	4,876	3,371	1,715	118	4,915	
Upper Chindwin.	...	...	...	...	...	...	19	5	1	1·33	776	1,326	44	334	1,660	
Kyaukse ...	...	...	...	...	...	...	37	17	9	18	9,417	...	...	...	...	
Meiktila ...	...	...	...	...	...	...	67	57	11	8·48	4,332	...	...	...	...	
Yamèthin ...	219	7	...	110·68	22	...	68	67	33	55	17,179	575	575	25	12,760	
Myingyan ...	...	...	...	...	...	...	20	15	8	15·16	5,330	10,625	4,967	67	24,920	
TOTAL FOR 1913-14.	2,034	884	152	3431·22	2862·80	709·49	2,016	1,020	333	1,022·74	466,083	80,217	20,693	1,837	225,017	
TOTAL FOR 1912-13.	1,717	400	104	2956·99	2206·15	1284·84	1,802	736	110	1126·13	311,214	15,808	13,039	2,154	150,641	

STATEMENT XI.—*Statistics relating to Government Survey Schools for the year* 1913-14
(Paragraph 20).

District.	Daily average number of pupils on the rolls.	Number of days the school was in session.	Average number of days each pupil received tuition.	Number of pupils on the rolls on the 31st March.			Total income for the year.	Total expenditure for the year.				Number of pupils presented at the last examination in						Remarks.
				Pupils paying fees.	Free pupils.	Total.		On Establishment.	On Scholarships.	On prizes and bonuses.	On other contingencies.	Total.	Surveying.		Arithmetic.		Revenue law.		
													Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.							
Akyab	10	265	228	13	...	13	147	1,104	317	46	306	1,773	18	5	10	3	12	6	
Kyaukpyu ...	8	250	212	8	...	8	112	998	823	63	288	2,172	8	3	7	4	7	6	
Insein	20	273	250	19	1	20	432	1,152	1,455	...	429	3,036	23	12	23	10	23	19	
Pegu	8	269	240	2	5	7	68	984	270	17	140	1,411	7	...	7	3	7	4	
Bassein ...	16	266	203	13	3	16	234	1,128	1,049	65	371	2,613	16	4	16	9	16	10	
Henzada ...	13	266	231	7	3	10	226	1,044	577	111	...	1,732	10	2	9	3	10	4	
Maubin ...	15	268	266	6	9	15	183	1,104	840	24	201	2,179	16	2	15	2	15	9	
Toungoo ...	15	252	243	7	2	9	322	1,009	470	85	73	1,637	8	3	5	3	7	6	
Amherst ...	14	256	193	10	3	13	253	1,104	782	150	437	2,473	13	10	13	13	13	13	
Tavoy	15	294	204	15	1	16	276	1,101	887	73	401	2,464	16	8	15	10	14	13	
Pakôkku ...	23	240	210	11	16	27	186	904	989	108	54	2,049	27	6	27	13	27	18	
Minbu	20	259	257	9	12	21	358	1,047	941	66	101	2,155	21	3	19	9	18	12	
Mandalay ...	10	273	223	8	1	9	115	1,104	710	173	86	2,073	9	9	9	9	9	9	
Katha	8	255	152	3	4	7	4	1,020	847	90	50	2,007	7	7	7	6	7	5	
Shwebo ...	20	279	185	1	18	19	20	1,104	1,159	194	83	2,540	19	19	19	16	19	18	
Lower Chindwin ...	17	305	205	5	12	17	56	956	480	136	41	1,613	17	13	16	16	17	15	
Meiktila ...	19	269	259	12	3	15	150	864	1,528	53	17	2,460	15	4	14	7	13	6	
Yamèthin ...	12	264	264	7	5	12	126	886	838	41	80	1,845	12	3	10	4	12	7	
Total for 1913-14 ...	269	257	223	156	98	254	3,267	18,616	14,930	1,493	3,158	38,202	267	111	241	138	247	178	
Total for 1912-13 ...	338	260	241	189	125	314	4,071	19,448	15,161	1,854	3,423	39,827	302	234	231	200	272	165	

G. B. C. P. O.—No. 133, C. S. & L. R., 10-10-1914—322—R. A. P.

S.D.C.P.B.—No. W, C.S.L.—25-7-14-350.

LAND RECORDS ADMINISTRATION REPORT OF BURMA

FOR THE YEAR ENDED THE 30th JUNE 1915

RANGOON
OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA
1915

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LAND RECORDS ADMINISTRATION REPORT OF BURMA

For the year ended the 30th June 1915.

CHAPTER I.

INTRODUCTORY.

1. The total area under Supplementary Survey in 1914-15 was 51,444 square miles, a decrease of 8 square miles on the area of the previous year. Within this area, the Land Records Department affected the assessment of 347·08 lacs of rupees at a cost (including cost of Administration) of 17·15 lacs or slightly under 5 per cent. In addition to the Revision and Extension Surveys executed by the ordinary staff, 407·10 square miles of Revision and Extension Surveys with an occupied area of 162,229 acres and 25 square miles of Town surveys were executed by the Special staffs, at a cost of Rs. 73,502. Special parties were also engaged on Mining, Fishery and *Patta* surveys.

CHAPTER II.

SPECIAL DEMARCATION AND SURVEYS.

2. *Demarcation preliminary to Survey.*—Preliminary demarcation of the area to be surveyed by special agency was undertaken in the Henzada and Myaungmya Districts. In Henzada the demarcation of 27·39 square miles was carried out by the local staff. In Myaungmya the demarcation was undertaken for the original survey of the Hlaingbon tract comprising 47 square miles of sparsely populated and thickly wooded country in the littoral part of the district, in which considerable areas are each year being cleared and reclaimed. The work was completed by a Demarcation Officer within the sanctioned period of two months and consisted mainly in the breaking up of this tract into 37 survey *kwins*. No demarcation of holdings has as yet been made and a regular holding survey will be a necessary preliminary to the settlement of this tract, which is now held under conditional occupation. Such a survey would however at present be premature. The cost of demarcation was Rs. 11-8-0 per square mile. Statement I.

3. *Revision Surveys by Special Staff.*—A three years' programme of revision surveys to be carried out by the Special Survey Party was sanctioned in February 1914. The party having completed the recess work connected with revision and extension surveys in the Akyab, Kyaukpyu, Sandoway, and Thayetmyo Districts which had been carried out during the field season of 1913-14, took up the programme for the field season 1914-15, which included— Statement II.

(i) Myaungmya District—resurvey of about 92,000 acres;
(ii) Pyapôn District—resurvey of about 70,000 acres;
(iii) Bassein District—resurvey of Bassein town.

In addition to the survey of the Hlaingbon tract comprising nearly 47 square miles of original survey, which was added to the sanctioned programme, it was found that the occupied area in the Myaungmya District, in which resurvey by Special Staff was necessary, was some 49,000 acres in excess of the area originally reported. Consequently the Special Party was unable to extend operations to the Pyapôn District this year. The Party, however, accomplished the resurvey of Bassein town which is separately dealt with in paragraph 5 of this chapter. The area of which the survey was revised in Myaungmya was 130,848 acres exclusive of 25,481 acres in the Hlaingbon tract. The revisions were done throughout on traverse plots based on theodolite work and despite three weeks of inclement

weather in May were completed in all but 2,000 acres within the period of sanction. The Assistant Director inspected the field work and found that it was on the whole of good quality. The cost of the survey works out to the reasonable rate of three annas and ten pies per acre occupied. Mr. Beechey was in charge of the Special Party till the 14th December 1914, when he retired from the service of Government and was succeeded by Mr. Hardless, to whom the credit of bringing the season's operations to a successful issue belongs. A small special staff was employed in the Thatôn District on the resurvey of the Nyaunggyaung *kwins* comprising 11 square miles of former accretions in the estuary of the Sittang river. The *kwins* were ripe for a field-to-field resurvey, which was also necessary owing to frequent boundary disputes arising from encroachments by grantees and squatters. The cost was five annas per acre occupied.

Statement III.

4. *Extension Surveys by Special Staff.*—The Special Survey Party disposed of the original survey in the extended Hlaingbon area. The area surveyed was nearly 47 square miles, the occupied area being 25,481 acres. The survey was based on theodolite traverses geographically connected and the cost works out to three annas and eleven pies per occupied acre—a low figure for a tract which was surveyed for the first time. In the Henzada District a temporary special staff completed the traverse survey of 6,000 acres of occupied land demarcated to the west of the Ngawun river at a cost of Rs. 987. In Hanthawaddy, a special staff in charge of the Additional Superintendent of Land Records was employed on the survey and demarcation of the Kadonbaw colonisation area. A topographical survey based on theodolite traverses geographically connected was executed on the scale of 4 inches to the mile. The area dealt with was 36¼ square miles and the cost Rs. 3,770.

Statement IV.

5. *Town Surveys.*—Special surveys of certain towns in the Meiktila and Kyauksè Districts of Upper Burma, and of the *ex*-Cantonment area and Ngwehlan quarter of Toungoo town in Lower Burma, were carried out by small special parties working under the supervision of the local Superintendents of Land Records. Similar surveys had been sanctioned for certain towns in the Yamèthin and Upper Chindwin Districts, but owing to the unfavourable financial situation these had to be postponed, except the survey of a portion of Yamèthin town, which had been left unfinished at a previous survey. A portion of Ela town was also surveyed. The resurvey of Bassein town, for which proposals were included in the three years' scheme of revision survey by the Special Survey Party, was also sanctioned for disposal this year and was duly carried out. The demarcation and tenure enquiries preliminary to these surveys has not been in all cases satisfactorily carried out. The Demarcation Officers were usually careful to see that house sites were properly demarcated, but they often failed to follow the prescribed procedure for dealing with encroachments and disputed boundaries, and the special and general reports required under standing orders were frequently not submitted. Tenure enquiries in advance of demarcation were instituted for all the towns surveyed except Bassein town, but the prescribed procedure here also was often not adhered to and delays occurred. The defects in procedure are now being rectified as far as possible. The cost of demarcation pipes was recovered from the occupiers of sites and there has been no loss to Government on this account. Some progress in the construction of masonry pillars for the protection of the important theodolite stations laid down in the course of survey operations in towns has been made, and only want of budget provision prevented it being completed in all towns. Details of the demarcation and survey operations of the year are given in Statement IV attached to this report. There were altogether six Demarcation Officers at work in 13 towns. The total area demarcated was 22·345 square miles at a cost of Rs. 9,917. Surveys were conducted in 12 towns belonging to 5 districts and also in Rangoon town. The total area dealt with was 24·54 square miles and the cost of operations was Rs. 29,382. The surveys were all on the scale of 64 inches to the mile. The Assistant Director who inspected the surveys in 5 of the 6 districts found the work to be of a professional standard, generally of a high order. The survey in Bassein town was intelligently supervised and the results as a whole were highly satisfactory. In Rangoon town, the revision survey scheme, carried

out as a result of the report submitted by the late Mr. Gibson six years ago which brought to light the extremely neglected state of the supplementary survey, was concluded this year. It is considered that the regular staff assisted by the permanent flying column of two surveyors should be able to cope successfully with the work of keeping the town maps up to date in future.

6. *Fishery Surveys.*—During the year a Demarcation Officer was employed to subdivide and demarcate 87 fisheries including 2 turtle banks in the Myaungmya District. The subdivision resulted in 170 fisheries the demarcation of which was completed within the period of sanction. The survey was executed by a staff of one Inspector and three Surveyors and was done with the planetable and based on the printed 16-inch maps. The quality of the work is described as satisfactory. The cost of the demarcation amounted to Rs. 554 and of survey to Rs. 4,315, in all Rs. 4,869. Statement V.

7. *Patta Surveys by Special Staff.*—During the year *patta* and lease surveys were conducted in 7 districts in all. In the Arakan Division only Kyaukpyu adopted the principle of appointing a surveyor to each township for the survey of 1,100 acres on the contract system. In Mergui the surveys chiefly dealt with land intended for salt working and mining by native methods. In Upper Burma *patta* surveys were undertaken in the Minbu and Lower Chindwin Districts only. In Minbu the area for survey was confined to tracts receiving irrigation from the Môn canals and comprised 142 acres contained in 27 blocks; the cost was covered by the fees realized. In Lower Chindwin three Surveyors were employed to carry out the surveys of three mining licenses applied for by Messrs. A. K. S. Jamal Brothers, Limited; the area surveyed was 4,380 acres and the cost Rs. 200. Some 16 leases for cultivation aggregating 82 acres were also disposed of in this district at a cost of Rs. 41 on the piece-work system. In the Tavoy District a special survey staff for the conduct of mines surveys in connection with wolfram mining was employed under the supervision of a special Superintendent of Land Records. The season's programme consisted in the survey of 16 areas for which mining leases had been sanctioned by the Local Government, but from one cause or another only 13 were dealt with. The leases were greatly scattered and comprised some 24,000 acres or about 40 square miles approximately of which only 19,248 acres were completed during the field season. The total cost of the field operations was Rs. 22,256. The Assistant Director who inspected the operations during March was not satisfied with either the progress made or the system of survey followed. The cost of the survey will be recovered from the lessees at a fixed rate per running mile of boundary. Statement VI.

CHAPTER III.

SUPPLEMENTARY SURVEY WORK.

8. *Rural area under Supplementary Survey.*—The rural area under supplementary survey in 1914-15 was eight square miles less than in 1913-14. In the majority of districts the area remains the same, but there have been alterations in seven districts. In Kyaukpyu the area under supplementary survey has increased by some 40 square miles during the year due to the survey of 94 *kwins* by the Special Survey Party in the year 1913-14. The decrease in Pakôkku District amounts to 49 square miles due to the creation of the Kaing and Myitche fuel reserves. The decrease in Yamèthin District is due to the formation of an elephant grazing reserve at Paunglaung. Other alterations are unimportant and do not call for special notice. The total assessment aggregated Rs. 3,28,13,502, an increase of Rs. 4,21,625 on the total of 1913-14, which is mainly due to the introduction of new settlement rates in the following districts: Rangoon town, Pegu, Bassein, Myaungmya and Pyapôn. Statement VII.

9. *Supplementary Survey in Towns.*—The urban area under supplementary survey continues to expand, and the total area now stands at 247 square miles, an increase of 2 square miles during the year. The land revenue credited to Statement VII.

Government from this source has also increased and now totals Rs. 11,59,327, an increase of Rs. 1,12,482. The major portion of this increase, Rs. 91,220, was contributed by Rangoon, and of this sum, Rs. 17,500 was due to the new revision settlement land revenue rates, and the balance, Rs. 73,720, to increased receipts under Sale and Rent of Government land. The greater part of the latter total was due to revision of rent rates. There has been an increase of 361 acres under assessment during the year, this is distributed under new leases and grants, encroachment reported, and the assessment of homestead plots over quarter of an acre in extent. The Land Records Department since October 1914 in Rangoon have reported 240 encroachments on Government land. There has been a considerable improvement in the efficiency of the staff, the effect of which is apparent in the increase of revenue. District reports indicate that more attention is being given by the department to this important section of their work, and as familiarity with the new rules grows, better results should follow. The Revenue Surveyors are responsible for preparing Municipal assessment rolls in many towns, and during the year rolls equivalent to a revenue demand of Rs. 7,35,234 were submitted. This total represents an increase of just over two lakhs on the demand for 1913-14. This increase of revenue is however more apparent than real, as Akyab town is responsible for over a lakh, and there the increase is due to the introduction of the system of collection of Government and Municipal revenue by ward headmen in twelve blocks of Akyab town. During the year the preparation of these Municipal assessment rolls in Insein, Thayetmyo and Yamèthin Districts was delegated to the Land Records Department. The direct gain to the Municipal authorities has been considerable, especially in Yamèthin town.

Statement VIII

10. *Cost of Supplementary Survey Staff.*—The total cost of supplementary survey was Rs. 15,44,783 being Rs. 1,810 more than in 1913-14. The cost of superintendence and of the field staff was slightly less than in the previous year, but there was a rise in expenditure of over Rs. 6,000 under Contingencies and Supplies. Expenditure under these heads should be watched. In some districts the expenditure on binding charges is unnecessarily extravagant. The cost of the department for the year, calculated on an assessment basis, is 4·45 per cent. and shows a decline of ·09 per cent. on the figures of last year. In the majority of Lower Burma districts there has been a slight fall in the percentage of cost during the year, but this was neutralised somewhat by the rise in Sagaing Division, where the agricultural year was a poor one, and the revenue suffered owing to extensive fallows and crop failures.

11. *Preparation and Submission of Assessment Rolls.*—In the majority of Lower Burma districts and in many Upper Burma districts the assessment rolls were submitted punctually. There is however room for improvement in several districts notably Akyab, Insein, Magwe and Myingyan. There is no apparent reason why the staff in Magwe should be so dilatory, and I agree with the Commissioner's remark that 'lateness in submission of rolls is an established tradition in Magwe district which must be broken.' In Myingyan District the *Kaing* rolls were submitted very late. This should be carefully watched in future, as it may lead to fraud. When these rolls are late the period for island crop inspections is greatly curtailed and fraudulent crop marking is apt to go undetected.

Statement IX.

12. *Inspection of Supplementary Survey Field Work.*—There has been a considerable improvement in the number of inspections done by District Officers. During the year Deputy Commissioners inspected field work in 429 *kwins* as compared with 177 in the previous year. No field inspection was apparently done in Rangoon Town, Pegu and Pyapôn by the Collector and Deputy Commissioners of these districts. The example set by the head of the district has in many districts borne fruit and in Insein, Thatôn, Pakôkku and Yamèthin, to take only a few examples, the supervision by the Township Officers has been distinctly good, but there is still room for improvement in several districts; in Kyaukpyu, Sandoway, Tharrawaddy, Bassein, Henzada, Amherst and Mandalay more work could have been done by the Township Officers. In some districts

the reports indicate that the inspections done by Township Officers are of value, but in other districts their quality appears to be doubtful; in Thatôn, for instance, the comments of the Deputy Commissioner on some of the inspection work done are not enthusiastic. Improvement can only be attained by the Deputy Commissioner carefully scrutinizing inspection notes submitted by his Township Officers, and if need be insisting on these officers accompanying the Superintendent of Land Records on inspections until they are competent to inspect. Several officers appear from the district reports to have devoted too much energy to the inspection of town blocks as compared with rural work. Superintendents and Assistant Superintendents of Land Records inspected 3,585 *kwins*, or 204 *kwins* more than in the previous year. In Shwebo, Lower Chindwin, Myingyan, Magwe, Bassein and Tavoy the Superintendents appear to have been very energetic. The increase of inspections done by the district officers and the Superintendents has resulted in more energy being shown by Inspectors of Land Records. There is no doubt that in most districts the amount of inspection done by the Superintendent is reflected in the number of inspections done by the Inspectors. The average of inspection by Inspectors has risen by nine *kwins* during the year. There is however still a general tendency on the part of the Inspectors to spend too many days at headquarters during the field season. An Inspector should ordinarily be able to inspect a minimum of 120 *kwins*, and still find time for checking revision survey. That this is no impossible task is clear from the figures supplied by Hanthawaddy and Prome Districts in Lower Burma, and Mandalay and Sagaing Districts in Upper Burma. The quality of the work done by Inspectors appears in the majority of cases to be good. The errors found were chiefly due to erroneous crop marking, survey errors in interior details, and errors of record. The large number of crop marking errors found in Akyab and Amherst is astonishing compared with other Lower Burma districts, and it would appear that a different method of classification was followed in these two districts; the system followed in these two districts is being enquired into. Thatôn, Bassein and Myaungmya show numerous interior detail survey errors; this is to be expected in districts subject to floods, and where development has not become final. The district figures indicate a much higher standard of stability of physical features in Upper than Lower Burma. With registration in force in Lower Burma for many years, a great source of error in the record has been eliminated; but in Upper Burma where registration has not been in force for so long, and the holdings are small, and where the staff has to depend on reports by villagers to keep the record abreast of changes, the opportunity for the record to get out of date is greater. This is borne out by the figures supplied by Upper Burma. No serious frauds were detected during the year; but unremitting vigilance is necessary in the supervising staff if undesirable practices are to be prevented, and surveyors made to do their work carefully and honestly.

13. *Miscellaneous Surveys by local staff.*—The survey of new grants and leases by Revenue surveyors was confined to towns and to revenue-free grants for religious and public purposes in rural areas. The large area entered against Thatôn District in column 5 of Statement X includes 1,148 acres to be leased for rubber cultivation in Pa-an Township, the survey of which required revision by two Revenue surveyors, while the 160 acres against Shwebo relate to survey of demarcated blocks for allotment as leases to resident cultivators in the Ye-u Canal system. The revision and extension surveys by the local staff show a decrease in output of 19,189 acres, but this year all the districts report resurveys though none but Ma-ubin and Toungoo have reached the standard, 400 acres. The figures for Akyab include revision effected under the supervision of the local Superintendent by eight native *Amins* whose services were continued this year. The average outturn per surveyor for Lower Burma works out to some 280 acres which is an improvement on last year and for Upper Burma to 177 acres as against 175 acres the year previous. In Lower Burma the Pegu, Ma-ubin and Toungoo Districts did well, the surveyors averaging over 300 acres, while satisfactory increases are also apparent in Sandoway, Thayetmyo, Thatôn and Tavoy; but from Prome and Tharrawaddy, where large areas requiring resurvey exist, the returns are most

Statement X.

disappointing and necessitated special reference to the Deputy Commissioners concerned. In Upper Burma a creditable output of resurvey was achieved in the Yamèthin, Minbu, Katha and Sagaing Districts, where the average outturns exceed 300 acres. The check by inspecting officers of the Land Records staff of these important resurveys was again most inadequate, the Inspectors checking only a little over 60 per cent. and the Superintendents under 17 per cent. of the *kwins* resurveyed by the local staff. This matter of inadequate check will receive due attention. The area of impermanent island cultivation surveyed during the year fell considerably below last year's output, the largest decreases being in the Pakôkku and Yamèthin Districts of Upper Burma and in the Myaungmya District of Lower Burma. The district reports, however, do not furnish explanations of these notable decreases. The special staff of eight extra surveyors in Akyab completed 29 *kwins* covering 38,062 acres which required partial resurvey and bringing up-to-date by means of *kazin* corrections. The quality of the work is said to have been good.

14. *Scheme for future Revision Surveys.*—The programme of revision surveys formulated in the district reports contemplates the resurvey in round numbers of some 400,000 acres annually in the next three years by the permanent local staff and some 900,000 acres altogether by a special staff. The latter would furnish sufficient work for the Special Survey Party for six seasons. The estimates, however, do not appear to have been framed after due verification by the inspecting officers of all the *kwins* in the scheme of resurveys and will probably in many cases require revision.

15. *Preservation of permanent Survey Marks.*—The preservation of these marks by thugyis is a somewhat irksome task which is apt to be neglected. They naturally do not realize the importance of theodolite stations. The excuses offered for neglect are various. The thugyi pretends ignorance of the situation of the mark, alleges that they have never been properly handed over to him, that he has no map, or that his predecessor never showed him where the marks were situated. There is also reason to believe that the thugyis' reports on the condition of marks within their jurisdiction are more often than not based on information gathered from the cultivators and not from a personal visit to the mark. Still, despite all this, Government gets a considerable amount of most valuable work from thugyis under this head. From the experience of inspecting officers it is generally admitted that the protection of permanent survey marks in Sagaing Division is the best in the province. This is no doubt largely due to the fact that the Commissioner, Mr. B. S. Carey, C.S.I., has adopted a system of rewards in open durbar for thugyis who show particular energy in this important branch of their duties. Other Commissioners might consider the possibility of following the example of the Sagaing Division. Permanent survey marks are better cared for in Upper than Lower Burma, and this is in great part due to the greater energy of the Upper Burman thugyi, and the fact that there are fewer non-resident landlords. The Upper Burma landowner recognizes his responsibility for land marks on his land, and pays some attention to the thugyi's orders: but the non-resident landlord is a difficult person to deal with. In Yamèthin District it has been found that marks reported as lost in the past can, especially if situated in jungle, be easily picked up by the theodolite from the traverse data and that these marks would be more correctly described as 'missing' than 'lost.' In Toungoo District model methods of protection are on view in each township office compound and the Commissioner comments favourably on this practical demonstration of what is needed. The condition of theodolite stations in towns is much more satisfactory than was formerly the case and progress is being made in the erection of masonry pillars for their protection. The state of affairs in Mandalay indicates serious neglect of the care of these stations in the past, since some 300 stations only have been found of the 2,000 laid down in the survey in 1887. A further search is being carried on. Boundary marks in towns are in most places well cared for. The householders know the situation of the pipe, and, if it is not visible, can soon find it. These pipes when lost are easily and quickly relaid at the cost of the owner. In Maymyo town owing to the cutting and covering in

of drains many marks have been lost. They can however easily be relaid when the district authorities consider that the time for action is ripe.

16. *Inspection of Supplementary Survey Recess Work.*—From many district reports it is impossible to determine how many surveyors' offices were inspected during the recess. In Tavoy all offices were inspected during the year, and in Amherst and Hanthawaddy the inspections by the Superintendent were good. Recess inspection in the past had been inadequate in Rangoon town, with the result that, on inspection, part of the stock in the surveyors' offices was found missing, and had to be replaced at the expense of the present incumbents. In Bassein District a case came to light where a holding was sold in a revenue proceedings, because apparently the surveyor had not made a mutation of the name, although he had received a registration memorandum of the transfer. In cases like this the surveyor should be severely dealt with. From Pyapôn District there are complaints that the Sub-Registrar had not always forwarded memoranda of registration, or forwarded them very late; this is a matter that should have been immediately brought to the notice of the Deputy Commissioner, and rectified by executive action. There are still indications, that in several cases the latest maps and holding numbers have not been used in effecting the registration; this is also a defect in decrees of Civil Courts, and a reference to the Record Room becomes necessary before action can be taken. In Upper Burma the recess season is so short that the office inspection done in this period is necessarily curtailed. In Pakôkku District three cases of carelessness in the preparation of registers by the surveyors were detected, and one surveyor was dismissed. In Yamèthin, the Superintendent of Land Records discovered that two surveyors had prepared Register II without doing any preliminary work in Registers I and IA; one surveyor was removed and the other reduced, and action was taken against the Inspector concerned. In Mandalay District an Inspector was reduced for inadequate supervision of recess work. There is reason to believe that the inspections by Inspectors are at times superficial, and also that too much time is devoted to checking stock, instead of work. This can only be remedied by the Superintendent of Land Records inspecting an office in the presence of his Inspectors, and giving them a memorandum of the points he wants carefully checked in an office, and then insisting on the Inspectors following on the lines laid down.

17. *Miscellaneous duties of the Land-Records Staff.*—(*a*) In heavy districts like Akyab, Hanthawaddy and Thatôn the Superintendent has little or no opportunity to check assessments in areas outside supplementary survey; but this work should not be neglected in districts like Sandoway, Mergui and Prome. Where checks were made by Superintendents and Inspectors it was found that the thugyis' measurements were in most cases in favour of the cultivator; this is to be expected as the thugyi has got to live with his villagers after the assessment season is over.

Assessments outside of supplementary survey.

(*b*) The check of these indicated a fair standard of accuracy, most of the errors found were clerical, and it appears that these were due mostly to faulty section writing of the tax-tickets: this can be avoided by a better check of the work in the *Akunwun's* office. In only two districts were fraudulent alterations of tickets found. In Myaungmya District the matter is still under enquiry, but in Lower Chindwin District it was proved that the thugyi had not himself altered the tickets and he was acquitted on appeal.

Check of Tax-tickets.

(*c*) The demarcation of grazing grounds has proceeded satisfactorily during the year, and in Lower Burma districts the authorities fully realize the importance of this work. The check of the demarcated grounds was energetically carried on by the Land Records staff in Bassein, Henzada, Myaungmya, Hanthawaddy, Insein and Akyab, but Superintendents appear to find great difficulty in visiting these areas. The staff reported many encroachments and action has been taken to

Demarcation of grazing grounds and encroachments.

fine and evict cultivators found encroaching. Prosecutions can only be satisfactorily sustained when the grazing ground limits are clearly defined and known by the cultivators. Revenue surveyors have brought to light a considerable number of encroachments on Public Works Department roads.

Reporting of transfers

(*d*) There is a slight improvement amongst cultivators in reporting transfers: but much still remains to be done. The experiment of the Revenue surveyor carrying Register VII with him and noting transfers as soon as discovered in the presence of the interested parties has worked satisfactorily. More could probably be achieved, if Revenue surveyors got the thugyi to assemble his villagers on the day of his visit, with a view to facilitating reports. When so assembled there is no opportunity of the Revenue surveyor making illicit demands for effecting the transfer. Theoretically the work can be easily done, but the casualness of the surveyor and the apathy and suspicion of the cultivator is apt to defeat the best of plans.

Unauthorized transfers.

(*e*) The work involved in complying with paragraph 590 of the Land Records Manual is considerable and appears to yield little tangible result. Pegu District may be taken as representative. In Nyaunglebin Township 15 reports were sent to the Township Officer, proceedings were opened in all these cases, history sheets called for in three, and finally resumption took place in one case. In Daik-u 20 cases were opened, no sheets were requisitioned, and three holdings resumed. In Thanatpin four cases resulted, no history sheets were supplied and no land was resumed. In Pegu Township the results of the 44 reports sent are not known: but if the other townships may be taken for estimating purposes, we may assume that the land will be resumed in 3—5 proceedings. This is a case of 'much cry and little wool.' Other district reports appear to be just as unsatisfactory as Pegu, but the Superintendents have not followed up the results of their efforts in the Township Courts.

Miscellaneous.

(*f*) The Land Records Department is responsible for all land acquisition notifications, and these cause considerable work. History sheets and maps are requisitioned in many land revenue cases. Inspectors have to submit reports on revenue cases and disputes. The staff has to make crop cutting experiments. During the year suggestions for lump sum assessments in Minbu, Lower Chindwin and Yamèthin Districts were submitted and the compilation of the necessary statistics proved a considerable task. In Amherst and Lower Chindwin Districts the Superintendents of Land Records had to undertake a certain amount of soil reclassification. It appears from the absence of complaints on this score that revenue officers have begun to realize that the time of the Revenue surveyor is valuable. In Myaungmya District the Deputy Commissioner suggests that the surveyor would be better employed at his legitimate work, than in hanging round Civil Courts where his evidence is generally disbelieved. The circular issued by the Chief Court lately makes it quite clear that the attendance of the surveyor is not often necessary. In Insein and Hanthawaddy Districts, colour printing of soil classes on the *kwin* maps has proceeded satisfactorily during the year. In the former district 415 *kwins* were completed, and in the latter 394. The experimental stage is now over and this soil class printing is being extended to other districts where settlement has still some considerable time to run.

Settlement preparations.

(*g*) When settlement is proceeding in a district extra work is naturally thrown on the staff. In Akyab, Kyaukpyu and Sandoway the local staff assisted at crop reaping. The preparation and correction of new area statements in Prome and other districts has absorbed much of the spare time of the staff, but it is work that is very necessary. Moreover most of the difficulties which arise are due to negligence of the surveyor in the past or to carelessness in the preparation of the new statements.

18. *Condition of Land Records Offices and Record Rooms.*—The offices of 27 districts and 24 Record Rooms were inspected by the Commissioner of

Settlements and Land Records and his Assistants during the year. The condition of the Record Rooms of Tharrawaddy, Thatôn, Minbu and Pakôkku was unsatisfactory. In the case of Pakôkku this was due to the removal of the records to a new record room, and the defects noted on inspection are now being rectified. On the whole the offices were satisfactory, but there is still room for improvement, and more supervision by the Superintendents of Land Records, and inspection by the Deputy Commissioners, would lead to beneficial results. The inspection of the Land Records Office and the Record Room is as important as field inspections, and would give the Deputy Commissioner an insight into the difficulties of the Superintendent of Land Records and the progress being made by the field and headquarters staff.

19. *Conduct of the Subordinate Land Records Staff.*—During the year 1 Inspector was dismissed, 3 removed and 6 reduced or suspended. Amongst Surveyors 19 were dismissed, 36 removed, and 70 reduced or suspended. There were also 28 resignations and several of these were undoubtedly due to pending enquiries. Two Surveyors were criminally convicted during the year. These figures show no improvement on those of last year. The following districts show the highest number of punishments: Akyab, Rangoon Town, Tharrawaddy, Shwebo, Kyauksè and Meiktila. In Akyab the staff is inefficient, while in Rangoon town supervision in the past had been poor, with the result that the staff had become slack. The punishments in Kyauksè have been due partly to corrupt practices in the past. In Meiktila the district authorities consider that too much discretion is given to the surveyor in crop marking, and that he is unable to resist the temptation of false fallow and failure marking, when properly approached by the cultivator.

CHAPTER IV.

TRAINING OF OFFICERS.

20. *Survey Schools.*—The number of survey schools continues at 18. The total number of pupils on the rolls of the schools on 31st March was 251, or 3 less than last year; of these 106 paid no fees. Exemption from the payment for tuition is often too freely granted. The educational attainments of the students continues at a high level and the majority are admitted on the strength of their educational certificates. Compared with past years and the results at the Syndicate examinations, however, it is obvious the schools are not attracting pupils as in former years; in fact it would appear that Burman youths can only be induced to cultivate a desire for technical education by the offer of scholarships and soon our survey schools will contain no others but those who are paid to learn surveying. The total expenditure on schools amounted to Rs. 38,944 against an income of Rs. 3,361. The cost of educating each pupil thus works out to nearly Rs. 125. The results obtained at the Syndicate Examination of April 1915 were a considerable improvement on last year. In arithmetic the results of this year are the best on record, being 82 per cent. as against 54 per cent. to 69 per cent. in the past six years; in Revenue they are 62 per cent. as against 46 per cent. to 71 per cent. in the previous years; while in Surveying they are 74 per cent. as against 44 per cent. only in 1914 and 62 per cent. to 77 per cent. in the years previous to that year. The Shwebo School was the most successful, while Henzada, which passed only two boys in Surveying this year, showed the worst results. The 'Clancey Medal' was won by Maung Ba of the Shwebo School and this is the second time in three years that this school has secured the medal. All but three of the schools were inspected by the administrative officers of the department. Generally speaking the condition of the schools was satisfactory, book-work tuition receiving due attention; but the pupils should be better practised in field-work, the cadastral survey methods succinctly described in paragraphs 77 to 90 of the Burma Survey Manual being strictly adhered to. Statement XI.

21. *Training of Apprentices.*—The examination of apprentices was not held in Kyaukpyu, Sandoway, Thatôn and Katha. The reasons given for not holding

the examinations in Kyaukpyu and Katha are unsatisfactory. The Superintendent of Kyauksè District does not appear to have taken sufficient interest in the training and examination of his apprentices, but from the district reports it is clear that most Superintendents are beginning to realize that the training of these men is all important, if an efficient staff is to be maintained. It is also clear that survey is generally the weakest point. In Pyapôn, Amherst, Shwebo and Yamèthin Districts, however, a reasonably high standard has been attained, and in Shwebo and Yamèthin Districts a good part of the revision survey done by the territorial staff was the work of these second year apprentices. It is essential that these lads be placed under a good revenue suveyor, if they are to be properly taught, and Inspectors should be held responsible for their progress. The system followed in Shwebo District of making the apprentice responsible for two *kwins* in the charge, might with advantage be adopted in other districts. In several districts these apprentices are entertained as chainmen with success, but in Hanthawaddy District it would seem that the surveyor prefers his own hanger-on as chainman and servant. The standard set at the examinations is not uniform in all districts, in Insein 8 men appeared and 8 passed, whereas in Henzada with the same class of men, only 7 passed out of the 13 who appeared. The figures extracted from the district reports show that out of 178 candidates appearing some 116 succeeded in obtaining certificates.

22. *Qualifications and Training of the Subordinate Staff.*—The preliminary training in field work as directed in Chapter III, Part B of the Manual was carried out in most districts: but Tharrawaddy and Tavoy Districts failed to comply, and have given no satisfactory reason for their neglect. It is not contemplated that all surveyors should be instructed every year; where a surveyor knows his work thoroughly he may be excused attendance by the Superintendent of Land Records: but the less experienced and inefficient men must be put through an annual training before taking the field for the *kaukkyi* season. In fifteen districts efforts were made to train men in the use of the theodolite: but the results were not encouraging. Where Superintendents have had experience of special survey work these efforts generally result in a few Inspectors, and senior surveyors becoming sufficiently proficient to replace permanent survey marks and to traverse *kwins*. Better results should be obtainable if the Superintendents of Land Records fully realized the importance of having at least four men in their district who could be relied upon to do sound traverse works. In most districts this has to be done by the Superintendent of Land Records himself when re-surveys are in hand, and there is then too much to be done if supervision is to be carried on at the same time. The excuse put forward by one Superintendent that he was unable to train a large class as he had only one theodolite is hardly acceptable. The class should never consist of more than four, and spare theodolites can be borrowed from the Commissioner of Settlements and Land Records, or from a neighbouring district. Mr. D'Souza is to be commended for his energy in training Canal Surveyors of the Irrigation Department in cadastral work, and at the same time getting from them a satisfactory amount of re-survey work. These men were kept from loafing, were made more efficient, and Government got a most useful amount of work out of them.

23. *Training of Probationer Assistant Superintendents of Land Records.*—The two probationers, Messrs. Kong Mein and Nicholas, who were appointed in November 1912 completed their training during the year and now await their final examination. The three probationers, Maung Hla, Maung Saw Maung, and Maung Ba Than, who were appointed in November 1913 completed their survey course of 18 months in May 1915 and received certificates of qualification. They are now undergoing their course of training in Land Records work.

24. *Training of Civil Officers in Survey and Land Records Work.*—Three Officers from the Commission, four Extra Assistant Commissioners, and eighteen Myoôks were trained in Survey and Land Records work during the year. Now that Divisional Commissioners insist on greater supervision of field work by the District Revenue Staff this training is most valuable.

CHAPTER V.

ADMINISTRATION.

25. *Administration.*—Mr. H. M. S. Mathews, C.S.I., was in charge of the Department until the 23rd of March 1915 when he went on leave preparatory to retirement. Mr. D. F. Chalmers, I.C.S., Deputy Director, officiated as Commissioner of Settlements and Land Records in addition to his own duties from the 23rd of March until the 11th of April pending the return from deputation to the Imperial Legislative Council of the Hon'ble Mr. R. E. V. Arbuthnot, I.C.S., who held charge of the Department from the 12th of April until the end of the year. Mr. Mathews, who had on two previous occasions acted as Director of Land Records and Settlement Commissioner, succeeded Mr. T. C. Wilson, I.C.S., in charge of the Department on the latter's departure on leave in November 1907, and was confirmed in the appointment of Commissioner of Settlements and Land Records on the 11th of October 1908. He had thus on his departure held charge of the Department for 7½ years. His wide experience and his intimate knowledge of, and keen interest in, all matters connected with Land Records work, have been of great value to the Department, and during his tenure of office much has been done to place the department on a sound footing, and to improve the work of the staff and the methods of supplementary survey. Mr. D. F. Chalmers, I.C.S., continued as Deputy Director and held the post throughout the year. Mr. J. Haddock held the post of Assistant Director throughout the year except for three months from the 12th of October when he was absent on privilege leave. During his absence Mr. L. E. Palmer, Superintendent of Land Records, officiated as Assistant Director. All these officers accomplished much useful inspection and afforded much assistance to the Commissioner of Settlements and Land Records.

26. *Superior Land Records Staff.*—The cadre of the Superior Land Records service was one short on the 1st July 1914. One officer, Mr. P. Beechey, retired during the year and two Probationers were appointed. Towards the close of the year, the cadre was increased by two appointments, one appointment being added to each of the First and Second grades of Assistant Superintendents. At the close of the year, the cadre was two short. Five officers were on long leave during the year. Owing to the shortage of officers, it was found necessary to obtain the services of five Myoôks, of whom three were in charge of districts and two were acting as Assistant Superintendents. The work of Maung Kyi O, Mr. L. Aubert, Mr. F. A. D'Souza, Mr. A. P. Nolan and Mr. H. A. Hardless is deserving of special mention. Maung On Pe did good work in connection with the town surveys in the Meiktila District.

R. E. V. ARBUTHNOT,
Offg. Commissioner of Settlements and Land Records, Burma.

RANGOON, *7th September* 1915.

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STATEMENT NO. I.—*Area under, and cost of, Demarcation preliminary*

Tract.		Staff.			Whether Special or Local Staff.
District.	Township.	Demarcation Officer.	Establishment.	Pay.	
1	2	3	4	5	6
				Rs.	
Myaungmya	Maulmeingyun	1	4	304	Special.
Total for 1914-15 ...	.....	1	4	304	...
Total for 1913-14 ...	.....	10		292	...

STATEMENT NO. II.—*Area under, and cost of, Revision*

Tract.		Traverse (Field).						Staff.				Cadastral *Kwins.*	
District.	Township.	Sub-surveyors.	Period.	*Kwins.*	Area.	Mathematical results. Average angular error per station.	Mathematical results. Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Whole.	Part.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		No.	Months.	No.	Sq. mls.	Seconds.	Links.	No.	No.	No.	Mnths.	No.	No.
Myaungmya ...	...	5	7	220	312·36	0·07	·03	6	36	6	6	220	...
Thatôn ...	...	1	2	6	9·96	3·00	·12	1	3	...	3	6	...
Total for 1914-15	...	6	2—7	226	322·32	1·54	·07	7	39	6	3—6	226	...
Total for 1913-14	...	5	6	137	207·00	0·761	0·107	4	23	4	6	137	...

STATEMENT NO. III.—*Area under, and cost of, Extension*

Tract.		Traverse (Field).							Staff.			Cadastral
District.	Township.	Sub-Surveyors.	Period.	*Kwins.*	Area.	Azimuths observed.	Mathematical results. Average angular error per station.	Mathematical results. Average lineal error per 10 chains.	Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.
1	2	3	4	5	6	7	8	9	10	11	12	13
		No.	Months.	No.	Acres.	No.	Seconds.	Links.	No.	No.	No.	Months.
Hanthawaddy ...	...	6	6	...	24,960	5	...	4·90	...	3	...	4
Henzada ...	...	1	5	29	(a) 17,529	1	·90	·25	...	...	...	...
Myaungmya ...	..	4	4	37	29,928	4	·03	·07	3	17	1	3
Total for 1914-15	...	11	4—6	66	72,417	10	·47	1·74	3	20	1	3—4
Total for 1913-14	...	7	6½	216	101,345	10	1·01	0·10	4	19	7	6

(a) Includes an occupied area of 6,000 acres.

to Original Cadastral Survey outside towns in 1914-15—(Paragraph 2).

Period employed.	Area demarcated.		Cost of demarcation (if any).			Remarks.
	Gross.	Occupied.	Total.	Per square mile gross.	Per occupied acre.	
7	8	9	10	11	12	13
Months.	Sq. miles.	Acres.	Rs.	Rs. A.	Rs. A. P.	
2	46·76	25,481	541	11 8	0 0 4	
2	46·76	25,481	541	11 8	0 0 4	
10	238	35,224	2,225	9 6	0 1 0	

Surveys (by Special Staff only) in 1914-15—(Paragraph 3).

(Field).							Cadastral (Recess).		Cost (Field and Recess).			Remarks.
Area.		Fields.		*Kwins* holding marked.	*Kwins* partalled		Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	
Gross.	Occupied.	No.	Average size.		By Superintendent.	By Inspectors.						
15	16	17	18	19	20	21	22	23	24	25	26	27
Sq. mls.	Acres.		Acres.	No.	No.	No.	No.	Months.	Rs.	Rs. A.	As. P.	
312·36	130,848	230,607	·55	...	56	198	32	1	31,244†	100 0	3 10	†This figure includes only cost of recess up to 30th June 1915.
11·49	5,900	6,250	·94	...	2	6	5	2	1,905	165 13	5 2	
323·85	136,748	236,857	·74	...	58	204	37	1—2	33,149	102 6½	3 11	
207·00	79,710	357,748	·22	...	26	137	27	6	24,481	118 4	0 5	

Surveys (by Special Staff only) in 1914-15—(Paragraph 4).

(Field).								Cadastral (Recess).		Cost (Field and Recess).			Remarks.
Kwins.	Area.		Fields.		*Kwins* holding marked.	*Kwins* partalled		Inspectors, Draughtsmen, Computors, etc.	Period.	Total.	Per square mile gross.	Per occupied acre.	
	Gross.	Occupied.	No.	Average size.		By Superintendent.	By Inspectors.						
14	15	16	17	18	19	20	21	22	23	24	25	26	27
No.	Sq. mls.	Acres.		Acres.	No.	No.	No.	No.	Months.	Rs.	Rs. A.	Rs. A. P.	
...	36·49	...	...	...	...	2	...	...	...	3,770	103 5	...	‡This figure includes only cost of recess operations up to 30th June 1915.
..	...	...	...	...	...	...	...	...	...	987	36 1	0 2 8	
37	46·76	25,481	16,147	1·57	...	7	35	10	1	6,214‡	132 14	0 3 11	
37	83·25	25,481	16,147	1·57	...	9	35	10	1	10,971	99 2	0 5 7	
216	158·21	35,436	70,815	0·50	...	48	214	26	6	28,659	181 3	0 13 0	

† Including estimated cost of recess up to 30th November 1915 the total cost of the operations will be Rs. 40,308 or Rs. 129-1-0 per square mile and 4 annas 11 pies per occupied acre.

‡ Including estimated cost of recess up to 31st October 1915 the total cost of the operations will be Rs. 7,534 or Rs. 161-2-0 per square mile and 4 annas 9 pies per occupied acre.

STATEMENT NO. IV.—*Area under, and cost of, Demarcation*

District.	Demarcation.					Traverse (Field).			
	Demarcation Officers.	Period.	Towns.	Area.	Cost.	Sub-Surveyors.	Period.	Towns.	Area.
1	2	3	4	5	6	7	8	9	10
		Months.		Sq. miles.	Rs.		Months.		Sq. miles.
Rangoon Town ...	...	...	...	...	...	1	4	1	2·33
Bassein Town ...	2	6	1	12·750	7,094	4	3	1	12·75
Toungoo ...	1	3	1	1·340	398	1	1	1	1·34
Upper Chindwin ..	1	1	2*	·045	485	...	...	...	...
Kyaukse ...	1	5	5	3·400	1,026	2	2	5	3·40
Meiktila ...	1	6	4	4·810	914	3	3	4	4·81
Yamèthin ...	...	...	...	..	...	...	†7	1	0·38
Total for 1914-15 ..	6	1—6	13	22·345	9,917	11	1—4	13	25·01
Total for 1913-14 ...	1	1½	1	·06	200	1	7	1	3·07

STATEMENT NO. V.—*Area under, and cost of, Demarcation*

Tract.		Demarcation.					Staff.		
District.	Township.	Demarcation Officers.	Period.	Fisheries.	Area.	Cost.	Inspectors.	Surveyors.	Draughtsmen and Clerks.
1	2	3	4	5	6	7	8	9	10
		No.	Months.	No.	Acres.	Rs.	No.	No.	No.
Myaungmya ..	Einmè, Myaungmya, Moulmeingyun and Wakèma.	1	6	85†	7,800	554	1	3	1
Total for 1914-15 ...	...	1	6	85	7,800	554	1	3	1
Total for 1913-14 ...	...	...	...	...	...	...	...	...	...

STATEMENT NO. VI.—*Area under, and cost of, Patta*

District.	Special Patta Myoôks.										Pat	
	No.	Period.	Grant cases.				Cost.	Staff.		Period.	For Survey.	
			For disposal		Disposed of			Inspectors.	Surveyors.		No.	Area.
			No.	Area.	No.	Area.						
1	2	3	4	5	6	7	8	9	10	11	12	13
		Months.		Acres.		Acres.	Rs.	No.	No.	Months.		Acres.
Kyaukpyu	...	...	...	...	...	...	..	...	5	7	100	1,201
Sandoway	...	...	...	...	...	...	...	...	1	11	15	36·31
Amherst	...	...	..	...	..	..	...	...	7	6	105	1,110
Tavoy	...	...	...	...	...	...	...	..	3	6	45	253
Tavoy (Mines) ..	...	...	...	...	...	...	...	1‡	6	3	16	24,000
Mergui	...	...	...	...	...	...	...	...	7	6	141	1,416
Minbu	...	...	...	...	...	...	...	...	1	1	31	161
Lower Chindwin ...	...	...	...	...	...	...	...	...	4	2	19	4,462
Total for 1914-15 ...	...	...	...	...	...	...	...	1	34	1—11	472	32,639·31
Total for 1913-14 ...	...	...	...	...	...	...	...	1	26	6—11	971	11,346·34

‡ Superintendent of Land Records.

and Survey of Town Lands in 1914-15—(Paragraph 5).

Survey.									
Cadastral (Field).						Recess.		Cost (Field and Recess).	Remarks.
Inspectors.	Field Surveyors.	Draughtsmen and Computors.	Period.	Towns.	Area.	Inspectors, Draughtsmen and Computors.	Period.		
11	12	13	14	15	16	17	18	19	20
			Months.		Sq. Miles.		Months.	Rs.	
1	6	1	4	1	2·33	7	6	4,090	* Portion of 2 towns.
1	6	...	6	1	12·75	7	1	8,423‡	† Seven days.
1	2	1	4	1	1·34	4	2	1,731	‡ Including estimated cost of recess up to 31st October 1915 the total cost of the operations will be Rs. 10,058.
...	...	...	...	...	...	...	...	...	
1	4	....	4	4	2·35	7	2	6,408	
1	6	3	6	4	4·81	8	6	7,323	
...	2	...	5	2	0·96	3	4	1,407	
5	26	5	4—6	13	24·54	36	2—6	29,382	
...	5	1	...	2	3·50	6	...	6,662	

and Survey of Fisheries (by Special Staff only) in 1914-15—(Paragraph 6).

Survey (Field).						Survey (Recess).		Cost (Field and Recess).	Remarks.
Period.	Fisheries Surveyed.			Fisheries inspected		Inspectors, Draughtsmen and Clerks.	Period.		
	Whole.	Subdivision.	Area.	By Superintendent.	By Inspectors.				
11	12	13	14	15	16	17	18	19	20
Months.	No.	No.	Acres.	No.	No.	No.	Months.	Rs.	
6	47	38	7,800	9	85	2	4	4,315	† Excludes two turtle banks which were also demarcated and surveyed.
6	47	38	7,800	9	85	2	4	4,315	
...	...	...	...	...	...	...	...	...	

Surveys (by Special Staff only) in 1914-15—(Paragraph 7).

Survey						Plots Checked				
tas.		Fees.		Cost.		By Superintendent.		By Inspectors.		Remarks.
Surveyed.		Rate per acre.	Amount realized.	Contract system.	Regular pay.	No.	Area.	No.	Area.	
No.	Area.									
14	15	16	17	18	19	20	21	22	23	24
	Acres.	As. P.	Rs.	Rs.	Rs.		Acres.		Acres.	
86	1,100	8 0	885	(a)1,970	...	...	...	46	402	
15	36·31	8 0	45	(b)172	...	...	...	3	2·78	
103	1,147	8 0	525	(c)669	...	...	...	103	1,147	
35	218	8 0	125	118	...	...	..	54	286	
13	19,248	...	..	...	22,256	10	10,190	...	..	
131	1,318	8 to 1-8-0	1,927	(d)2,163	...	...	...	60	1,136	
27	142	8 0	68	...	45	..	...	8	33	
19	4,462	8 0	1,639	241	...	16	82	...	...	
429	27,671·31	8 to 1-8-0	5,214	5,333	22,301	26	10,272	274	3,006·78	
1,092	12,053·12	2 as. to 1-8-0	7,616	6,574	491	...	...	338	6,379·92	

(a) Includes Rs. 1,085 cost of previous year's work. | (b) Includes Rs. 167 cost of previous year's work. | (c) Includes Rs. 617 payment of previous year's surveys. | (d) Includes Rs. 236 payments for previous year's surveys.

STATEMENT No. VII.—*Area under Supplementary*

District.	Supplementary Survey in Rural Areas.					
	No. of *Kwthis.*	Total area				Total assessment (including cess in Lower Burma) in area on the column 4.
		Under Supplementary Survey.	Under occupation.	Under cultivation.	Under assessment.	
1	2	3	4	5	6	7
	No.	Sq. miles.	Acres.	Acres.	Acres.	Rs.
Akyab	1,325	2,090	726,119	635,859	725,397	20,15,927
Kyaukpyu	886	854	197,989	187,056	190,353	3,21,903
Sandoway	291	268	59,271	56,765	58,790	1,12,350
Rangoon Town	...	...	...	...	...	...
Insein	1,121	1,346	551,419	524,022	545,075	19,12,755
Hanthawaddy	930	1,606	815,420	794,612	824,792	31,37,838
Tharrawaddy	602	1,268	503,049	488,285	502,992	12,92,784
Pegu	1,205	2,109	795,728	765,319	792,640	22,71,460
Prome	1,037	1,714	371,113	359,517	371,014	6,86,926
Bassein	1,269	2,216	751,144	690,178	750,409	19,15,132
Henzada	922	1,788	590,878	560,849	590,429	15,29,262
Myaungmya	1,077	1,816	685,545	649,523	685,545	23,86,609
Ma-ubin	592	1,643	472,138	431,310	468,222	15,63,723
Pyapôn	845	1,284	663,182	643,914	663,180	22,70,918
Toungoo	772	1,470	435,056	405,572	419,313	9,13,683
Thatôn	1,705	2,388	701,602	661,967	651,464	14,91,659
Amherst	1,245	1,738	495,437	428,437	491,372	10,48,310
Tavoy	486	460	124,776	118,628	123,554	3,23,063
Mergui	638	588	95,926	83,455	91,196	2,56,691
Thayetmyo	711	1,229	164,037	127,348	114,126	1,86,804
Pakôkku	1,892	2,953	748,463	419,921	378,017	4,17,318
Minbu	877	1,418	453,166	256,482	236,596	7,15,119
Magwe	2,211	2,717	957,168	463,324	386,827	4,39,895
Mandalay Town	15	14	5,558	4,546	4,103	21,970
Mandalay	760	688	255,480	169,299	161,108	8,18,818
Katha	1,953	1,084	203,043	177,035	170,594	2,18,494
Shwebo	3,649	3,680	1,041,964	666,415	555,096	13,51,799
Sagaing	1,181	1,822	761,610	464,205	352,936	3,75,677
Lower Chindwin	1,606	2,540	801,798	462,102	375,680	3,70,913
Upper Chindwin	188	108	42,052	30,608	29,823	36,232
Kyauksè	642	567	256,323	176,166	156,584	7,96,823
Meiktila	1,742	1,402	631,419	394,872	342,502	5,16,125
Yamèthin	1,904	1,677	525,235	398,498	328,456	6,47,583
Myingyan	2,832	2,899	1,243,101	685,857	572,405	4,48,939
TOTAL FOR 1914-15 ...	39,111	51,444	17,136,209	13,381,946	13,110,590	3,28,13,502
TOTAL FOR 1913-14 ...	38,962	51,452	16,954,364	13,203,291	13,229,011	3,23,91,877

Survey for the year 1914-15—(Paragraphs 8 and 9).

Supplementary Survey in Towns.										
No. of Towns.	No. of Blocks.	Total area. Gross area.	Occupied area in Town Register L.	Area under Government assessment.	Total Land Revenue and Rent and Land Rate.	Municipal assessments for which Surveyors prepare rolls.	Total area under Supplementary Survey.	Total area occupied.	Total assessment	Remarks.
8	9	10	11	12	13	14	15	16	17	18
No.	No.	Sq. miles.	Acres.	Acres.	Rs.	Rs.	Sq. miles.	Acres.	Rs.	
1	10	5	1,883	1,662	16,095	1,69, 07	2,095	728,002	22,01,929	
1	6	1	362	310	1,924	...	855	198,351	3,23,827	
1	6	1	164	125	318	5,552	269	59,435	1,18,220	
1	471	30	12,150	8,847	6,77,255	...	30	12,150	6,77,255	
15	53	9	3,726	3,726	23,049	20,136	1,355	555,145	19,55,940	
7	99	7	2,969	2,969	30,416	6,790	1,613	828,389	31,75,044	
12	62	16	7,752	7,598	47,039	...	1,284	510,801	13,39,823	
16	95	12	7,589	4,364	49,278	...	2,121	803,317	23,20,738	
7	35	9	5,156	3,626	33,142	3,153	1,723	376,269	7,23,221	
6	68	19	8,459	6,741	47,659	3,968	2,235	759,603	19,66,759	
10	98	16	6,259	5,772	17,113	...	1,804	597,137	15,46,375	
6	62	4	1,464	1,306	12,655	8,765	1,820	687,009	24,08,029	
5	61	5	1,740	1,734	12,644	32,700	1,648	473,878	16,09,067	
5	234	6	2,644	1,907	18,371	...	1,290	665,826	22,89,289	
10	39	12	7,680	3,461	36,795	53,180	1,482	442,736	10,03,658	
9	246	13	5,032	3,412	13,124	13,146	2,401	706,634	15,17,929	
3	120	20	8,886	6,706	30,321	...	1,758	504,323	10,78,631	
1	30	9	3,990	3,649	12,658	...	469	128,766	3,35,721	
2	143	2	995	835	4,614	30,998	590	96,921	2,92,303	
2	14	2	855	445	9,934	22,814	1,231	164,892	2,19,552	
1	51	4	383	90	1,049	10,634	2,957	748,846	4,29,001	
4	35	3	2,103	535	2,591	11,570	1,421	455,269	7,29,280	
3	24	4	1,258	..	5,227	5,269	2,721	958,426	4,50,391	
1	952	11	6,945	2,725	22,179	2,53,346	25	12,503	2,97,495	
1	20	7	1,501	1,461	3,845	33,673	695	256,981	8,56,336	
6	60	2	1,016	361	6,048	...	1,086	204,059	2,24,542	
16	44	4	1,160	290	4,290	...	3,684	1,043,124	13,56,089	
3	13	3	1,243	649	4,016	2,300	1,825	762,853	3,81,993	
2	23	2	991	209	3,043	5,360	2,542	802,789	3,79,316	
...	...	...	...	...	...	...	108	42,052	36,232	
...	...	...	...	...	...	...	567	256,323	7,96,823	
4	...	5	1,075	1,060	5,288	13,439	1,407	632,494	5,34,852	
...	...	...	...	...	3,961	11,125	1,677	525,235	6,62,666	
2	57	4	1,096	617	3,386	17,409	2,903	1,244,197	4,69,734	
163	3,231	247	108,526	77,192	11,59,327	7,35,234	51,691	17,244,735	3,47,08,063	
163	2,757	245	97,865	75,137	10,46,845	5,35,089	51,697	17,052,229	3,39,73,811	

STATEMENT No. VIII.—*Cost of Supplementary*

District.	Superintendence and Inspection.				Supplementary Survey Field Number of Survey Charges.				
	Pay and Travelling Allowance of Superintendent and Assistant Superintendent, if any.	Number of Inspectors.	Pay and Travelling Allowance of Subordinate Inspecting and Clerical Establishment.	Total cost (column 2 *plus* column 4).	Revenue Surveyors' Charges, Rural.	Revenue Surveyors' Charges, Urban.	Revenue Surveyors' Charges, partly Rural and partly Urban.	Survey Charges, in *Taiks*.	Survey Charges partly in *Taiks* and partly in Revenue Surveyors' charges.
1	2	3	4	5	6	7	8	9	10
	Rs.	No.	Rs.	Rs.	No.	No.	No.	No.	No.
Akyab ...	6,494	8	12,758	19,252	85	2	...	2	...
Kyaukpyu ...	4,934	4	6,291	11,225	17	...	1	5	6
Sandoway ...	5,455	3	4,916	10,371	12	...	...	...	1
Rangoon Town ...	7,004	2	8,042	15,046	...	16	...	...	...
Insein	7,288	5	11,824	19,112	34	1	8	11	...
Hanthawaddy	14,498	7	13,408	27,906	60	...	7	10	...
Tharrawaddy ...	4,176	6	8,421	12,597	40	...	12	5	...
Pegu	10,922	8	12,870	23,792	64	2	15	...	...
Prome	5,843	5	7,943	13,786	44	3	6	4	2
Bassein ...	6,826	9	16,594	23,420	64	7	...	8	...
Henzada ...	6,403	6	10,040	16,443	51	2	8	11	...
Myaungmya ...	7,560	6	10,261	17,821	52	...	6	7	...
Ma-ubin ...	4,900	5	9,359	14,259	47	...	5	2	...
Pyapôn ...	6,932	7	12,679	19,611	63	...	4	4	...
Toungoo ...	4,978	5	8,453	13,431	31	2	11	2	...
Thatôn	8,147	8	11,919	20,066	74	3	2	2	...
Amherst ...	8,065	6	9,455	17,520	53	4	2	3	3
Tavoy ...	3,939	3	5,684	9,623	17	2	1	1	1
Mergui ...	2,695	3	5,827	8,522	20	...	2	...	...
Thayetmyo ...	4,858	4	6,383	11,241	31	1	...	...	4
Pakôkku ...	5,151	9	12,766	17,917	70	1	...	...	..
Minbu ...	7,335	6	9,281	16,616	51	2	...	...	...
Magwe ...	5,678	8	11,969	17,647	73	...	3	...	...
Mandalay Town ...	4,168	2	5,822	9,990	1	13	1	...	...
Mandalay ...	6,986	5	8,813	15,799	47	2	...	...	...
Katha ...	4,745	5	8,063	12,808	33	...	6	...	...
Shwebo ...	10,041	12	17,660	27,701	102	...	16	...	...
Sagaing ...	6,447	8	12,202	18,649	70	1	...	...	...
Lower Chindwin ...	6,529	7	10,805	17,334	61	...	2	...	...
Upper Chindwin ...	3,383	1	3,432	6,815	8	...	...	...	...
Kyauksè ...	4,196	6	8,168	12,364	45	...	...	...	...
Meiktila ...	4,452	5	7,787	12,239	54	1	...	...	..
Yamèthin ...	7,781	6	9,664	17,445	60	1*	...	...	...
Myingyan ..	3,717	8	11,980	15,697	74	1	1	...	...
TOTAL FOR 1914-15	2,12,526	198	3,31,539	5,44,065	1,608	67	119	77	17
TOTAL FOR 1913-14	2,15,566	197	3,31,029	5,46,595	1,592	60	125	89	17

Survey Staff in 1914-15—(Paragraph 10).

Staff.					Average Cost					Remarks.
							Of Supplementary Survey			
Number of Surveyors without local Charges.	Number of periodical Surveyors.	Total cost of field Supplementary Survey Staff.	Contingencies and Supplies and Services.	Total cost of Supplementary Survey.	Of Supervision and Inspection, per square mile.	Of Supplementary Survey field staff, per square mile.	Per square mile.	Per occupied acre.	Per cent. of total assessment.	
11	12	13	14	15	16	17	18	19	20	21
No.	No.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ans.	Per cent.	
...	...	43,040	2,251	64,543	9·19	20·54	30·80	1·419	2·93	
...	1	12,752	1,881	25,858	13·13	14·91	30·24	2·086	7·98	
...	1	6,563	1,129	18,063	38·55	24·40	67·15	4·863	15·28	
2	...	23,250	1,732	40,028	501·53	775·00	1334·26	52·711	5·91	
...	...	30,614	4,496	54,222	14·10	22·59	40·01	1·563	2·78	
...	...	41,377	3,311	72,594	17·30	25·65	45·01	1·402	2·28	
...	2	27,997	2,281	42,875	9·81	21·80	33·39	1·343	3·12	
...	...	46,326	3,043	73,161	11·22	21·84	34·49	1·457	3·15	
...	..	32,722	1,106	47,614	8·00	18·99	27·63	2·025	6·58	
...	...	41,412	1,993	66,825	10·48	18·53	29·90	1·408	3·40	
...	4	38,790	2,848	58,081	9·11	21·49	32·18	1·036	3·75	
...	...	35,458	5,220	58,499	9·79	19·48	32·14	1·362	2·01	
..	2	28,355	2,387	45,001	8·65	17·21	27·31	1·519	2·80	
...	...	38,517	2,349	60,477	15·20	29·86	46·88	1·452	2·64	
...	...	23,268	1,992	38,691	9·06	15·70	26·11	1·398	3·85	
...	2	40,800	2,001	62,867	8·35	16·99	26·18	1·423	4·14	
...	...	31,790	2,008	51,318	9·97	18·08	29·19	1·628	4·76	
...	...	11,944	1,169	22,736	20·52	25·47	48·48	2·825	6·77	
...	...	12,020	2,047	22,589	14·44	20·37	38·29	3·729	7·73	
...	...	15,413	1,640	28,294	9·13	12·52	22·98	2·745	12·89	
...	15	30,553	3,419	51,889	6·06	10·33	17·55	1·109	12·09	
...	4	21,337	2,087	40,040	11·69	15·01	28·17	1·407	5·49	
...	5	28,088	2,355	48,090	6·48	10·32	17·67	0·802	10·67	
2	...	8,820	1,786	20,596	399·60	352·80	823·84	26·356	6·92	
3	4	23,886	1,244	40,929	22·73	34·37	58·89	2·548	4·78	
...	...	19,332	1,179	33,319	11·79	17·80	30·68	2·613	14·84	
...	16	51,947	2,477	82,125	7·52	14·10	22·29	1·259	6·06	
...	8	28,335	3,590	50,574	10·22	15·53	27·71	1·061	13·24	
...	2	26,172	1,963	45,469	6·82	10·30	17·89	0·906	11·99	
...	...	4,888	534	12,237	63·10	45·26	113·30	4·656	33·7	
3	..	19,776	·960	33,100	21·81	31·88	58·38	2·066	4·16	
...	...	21,943	1,337	35,519	8·70	15·60	25·24	0·899	6·64	
...	...	27,449	2,493	47,387	10·40	16·37	28·26	1·443	7·15	* Employed in survey of Railway Towns.
...	10	30,299	3,177	49,173	5·41	10·44	16·94	0·632	10·47	
10	76	9,25,233	75,485	15,44,783	10·53	17·90	29·88	1·433	4·45	
20	78	9,27,358	69,020	15,42,973	10·57	17·94	29·85	1·447	4·54	

STATEMENT No. IX.—*Supplementary Survey.*

District.	Number of *kwins* in the District under Supplementary Survey.	Number of *kwins* under Supplementary Survey in which the field work was tested											Total number of *kwins* inspected by all Inspecting Officers.
		By District Officers.							By the Land Records Staff.				
		Subdivisional Officers.				Township Officers.			Inspectors.				
		Deputy Commissioner.	Number of Officers.	Number of *kwins* checked.	Average.	Number of Officers.	Number of *kwins* checked.	Average.	Superintendent.	Number of Inspectors.	Number of *kwins* checked.	Average.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Akyab	1,325	11	4	85	21	11	182	16	121	8	734	91	939
Kyaukpyu	886	7	1	8	8	5	53	10	97	4	350	87	515
Sandoway	291	7	...	...	...	3	18	6	110	3	206	69	233
Rangoon Town ...	471*	...	...	...	...	...	...	...	57	2	366*	183*	*423
Insein	1,121	29	2	29	14	4	78	19	116	5	768	153	866
Hanthawaddy ...	930	7	2	31	16	6	73	12	52	7	888	127	801
Tharrawaddy ...	602	2	2	48	24	6	37	6	57	6	538	90	8
Pegu	1,205	...	2	15	7	5	52	10	59	8	920	115	1,158
Prome	1,037	11	3	93	31	7	86	12	111	5	645	129	687
Bassein	1,269	7	2	15	8	8	44	6	156	8	705	88	928
Henzada ...	922	10	2	32	16	6	44	7	109	6	691	115	896
Myaungmya ...	1,077	5	2	28	14	4	73	18	109	6	688	114	753
Ma-ubin	592	5	2	72	36	4	38	9	105	5	507	101	587
Pyapôn	845	...	2	13	7	5	72	14	104	7	669	96	834
Toungoo ...	772	20	3	39	13	7	103	14	81	5	381	76	525
Thatôn	1,705	31	3	68	23	6	111	18	107	8	963	120	1,087
Amherst	1,245	21	3	30	10	8	65	8	97	6	557	93	670
Tavoy	486	36	...	...	...	4	52	13	143	3	415	138	646
Mergui	638	5	2	18	9	4	39	10	86	3	321	107	424
Thayetmyo	711	8	2	34	17	6	66	11	115	4	401	100	566
Pakôkku ...	1,892	47	2	35	17	5	179	36	111	9	1,220	136	1,551
Minbu	877	13	2	16	8	5	66	13	77	6	591	99	470
Magwe	2,211	9	2	32	16	6	133	22	143	8	1,068	133	905
Mandalay	760	7	2	11	5	4	33	8	117	5	680	136	677
Katha	1,953	9	3	89	30	7	62	9	121	5	726	145	934
Shwebo	3,649	11	3	72	24	9	408	45	203	12	1,837	153	2,009
Sagaing	1,181	16	2	116	58	6	208	35	118	8	1,082	135	885
Lower Chindwin ...	1,606	20	2	72	36	5	159	32	168	7	930	133	1,082
Upper Chindwin ...	188	6	1	60	60	1	47	47	84	1	114	114	160
Kyauksè	642	12	2	32	16	3	55	18	127	6	735	122	496
Meiktila	1,742	7	2	54	27	4	95	23	111	5	998	199	579
Yamèthin	1,904	43	2	34	17	5	159	32	72	6	514	86	671
Myingyan	2,832	7	2	47	23	6	141	23	141	8	1,427	178	1,615
TOTAL FOR 1914-15 ...	39,567	429	66	1,328	20	175	3,031	17	3,585	195	23,635	121	25,570
TOTAL FOR 1913-14 ...	39,048	177	66	814	12	171	2,118	12	3,381	194	21,828	112	23,905

* Blocks.

Inspections for the year 1914-15.—(Paragraph 12).

Abstract of errors discovered by the Land Records Staff.															Number of town blocks inspected by	
Errors affecting assessments.							Statistical errors.					Number of holdings.				
Total number of errors in			Results of correction of errors.				Total number of errors in									
			Increase.		Decrease.											
Area of extensions.	Crop marking.	Assessment.	Area.	Revenue.	Area.	Revenue.	Holding marking.	Crop marking.	Survey of interior details.	Record.	Total number of statistical errors.	In the *kwins* inspected.	Inspected in these *kwins*.	Found correct.	Superintendent.	Inspectors.
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			Acres.	Rs.	Acres.	Rs.										
395	5,368	11	167	411	64	200	804	263	6,787	1,337	9,191	67,164	22,510	14,717	...	...
264	802	1	125	188	150	213	689	375	1,120	610	2,794	50,108	15,959	12,374	3	1
337	1,109	14	49	76	10	12	501	954	2,760	1,380	5,595	29,756	7,321	3,102	...	...
88	...	11	7	3,815	...	...	206	13	332	301	852	6,486	1,928	1,173	...	...
43	58	17	194	495	23	66	484	82	4,168	641	5,375	32,643	12,785	9,530	...	...
447	1,048	41	161	500	24	115	326	195	4,417	889	5,827	43,816	17,440	13,489	24	86
166	148	...	127	232	15	31	410	119	3,016	629	4,174	66,475	14665	11,593	...	...
236	765	...	202	503	62	148	138	75	3,396	252	3,861	45,352	16,122	12,326	(*a*)80	...
460	1,190	26	138	182	62	173	1,070	121	1,424	2,023	4,638	145,990	31,188	25,923	8	24
744	1,773	29	323	1,024	245	112	202	6	7,035	304	7,547	45,667	14,039	8,202	(*b*)6	27
480	1,192	18	139	273	16	38	1,065	1,192	3,281	1,294	6,832	115,319	37,974	22,543	15	5
643	1,614	20	643	2,004	115	442	465	825	6,040	1,192	8,522	53,523	13,064	6,737	23	30
243	526	6	229	601	101	246	1,039	834	3,853	1,152	6,878	40,858	13,040	8,327	18	40
308	1,203	...	156	521	4	18	742	305	3,539	1,008	5,594	24,300	8,890	5,737	14	17
150	87	6	63	153	60	105	719	1,360	2,261	1,575	5,915	37,737	14,466	9,204	...	18
440	118	14	186	334	71	137	1,190	2,019	13,907	1,066	18,182	49,950	20,471	13,487	12	134
233	3,650	10	408	642	32	53	503	407	4,834	1,176	6,920	41,079	19,106	14,083	...	82
307	74	5	303	931	5	12	850	135	5,597	1,007	7,589	53,734	27,209	12,253	12	10
46	...	...	57	158	9	16	113	229	1,099	398	1,839	16,735	7,710	6,054	...	...
340	1,067	37	282	384	738	926	476	172	734	1,570	2,952	65,516	13,594	10,051	...	...
218	1,781	32	710	957	1,230	932	737	2,239	925	1,876	5,777	173,998	29,694	23,875	...	28
513	2,675	75	829	1,433	800	1,907	1,037	2,010	1,184	3,092	7,323	90,439	22,239	18,095	3	7
152	744	9	484	483	362	349	801	664	1,386	1,204	4,055	112,679	35,339	30,138	5	6
96	1,730	1	414	1,360	324	1,015	179	106	1,585	1,128	2,998	62,032	23,316	20,178	†12	†5
352	2,415	181	119	190	181	170	571	776	3,696	870	5,913	24,789	12,397	7,680	24	30
40	3,776	16	550	459	975	2,055	762	542	1,355	2,498	5,157	239,567	61,808	53,942	4	28
186	2,064	10	1,343	2,201	1,547	1,927	1,107	1,479	1,530	4,990	9,106	215,720	47,940	38,139	...	...
85	1,688	8	620	523	1,174	1,030	349	670	497	2,380	3,896	135,272	38,249	32,970	5	11
183	330	...	56	56	57	56	39	42	638	132	851	16,659	5,642	4,439	...	...
75	648	26	182	668	138	457	223	154	539	798	1,714	58,119	17,816	16,01	...	...
...	5,990	...	862	1,381	1,024	1,291	182	1,318	752	2,474	4,726	154,121	40,494	32,46	...	12
293	2,119	26	444	659	583	972	521	542	1,216	1,113	3,392	40,357	11,510	8,265	...	...
191	1,580	...	784	519	1,111	786	597	1,174	547	2,249	4,567	140,02	45,675	38,381	15	27
8,754	48,432	650	11,356	24,316	11,312	16,010	19,097	21,397	95,450	44,608	180,552	2,196,683	71 1,600	545,493	299	628
7,918	42,430	1,853	13,468	28,435	9,979	19,776	18,950	20,842	82,688	43,319	165,799	2,444,461	68,5,081	555,344	112	

† These figures do not include the 70 town blocks inspected in Mandalay Town by the Registrar of Town Lots, and 263 blocks by Inspectors.

(*a*) Includes 64 by Assistant Superintendent.

(*b*) Includes 2 by Assistant Superintendent.

STATEMENT NO. X—*Miscellaneous Surveys by the Local Staff in* 1914-15.—(Paragraph 13).

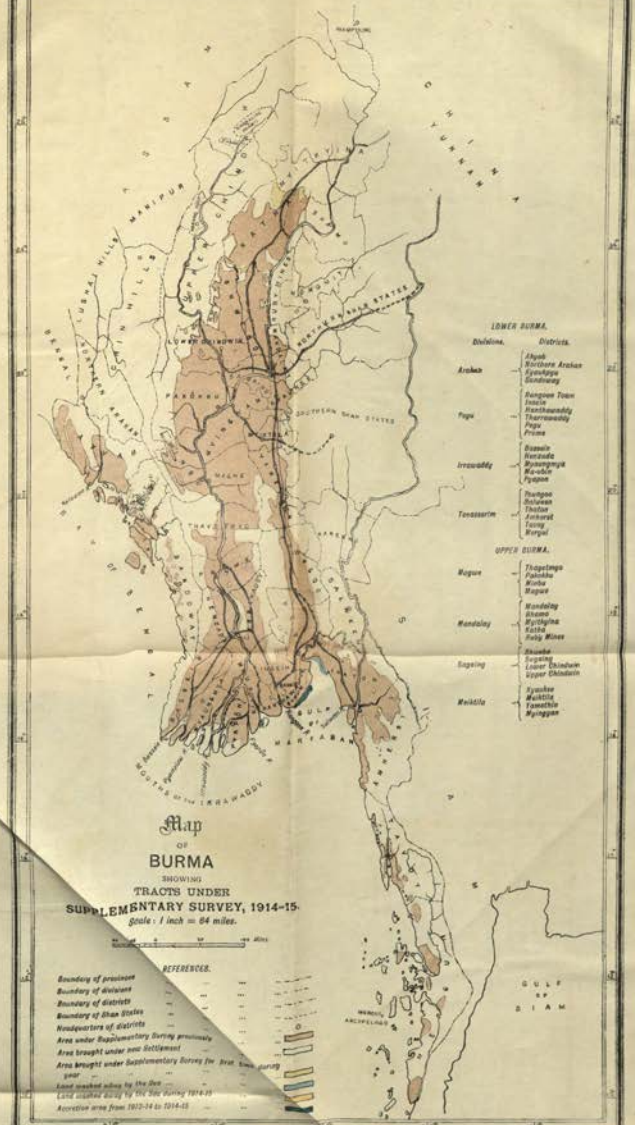
District.	Survey of Grants and Leases.						Re-surveys and Extension Surveys by the Local Staff.					Holding Surveys of impermanent island cultivation in unsurveyed tracts.			
	Number.			Area.			Number of *kwins*.			Area Surveyed.		Number of Holdings.			
	Surveyed.	Checked by Inspectors.	Checked by Superintendent.	Surveyed.	Checked by Inspectors.	Checked by Superintendent.	Surveyed wholly or in part.	Checked by Inspectors.	Checked by Superintendent.	Gross area.	Cultivated area.	Surveyed.	Checked by Inspectors.	Checked by Superintendent.	Area Surveyed.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
				Acres.	Acres.	Acres.				Sq. Miles.	Acres.				Acres.
Akyab ..	5	...	...	2·00	...	...	102	40	53	188·00	62,980	...	...	...	...
Kyaukpyu	10	2	...	58·69	44·88	...	22	11	5	16·11	6,209	89	20	11	201
Sandoway ...	...	...	...	...	...	...	22	19	10	14·50	4,819	...	...	...	...
Rangoon Town.	386	163	170	16·00	7·00	7	179	53	6	·50	295	...	...	...	...
Insein ...	13	...	...	27·00	...	...	46	34	6	21·41	11,138	...	...	..	...
Hanthawaddy.	...	...	...	...	...	...	16	14	1	21·89	9,852	...	...	...	..
Tharrawaddy.	22	..	...	55·00	...	...	37	3	...	5·72	3,608	3,889	61	...	11,199
Pegu ...	...	...	...	...	...	...	88	47	10	49·00	27,605	733	127	...	7,945
Prome ...	...	...	...	...	...	...	103	15	1	17·00	5,456	3,136	398	...	6,796
Bassein ...	...	...	...	...	...	...	54	39	10	19·41	11,612	...	...	...	..
Henzada ...	3	3	...	4·40	4·40	...	38	38	8	44·25	18,958	11,391	1,671	...	33,154
Myaungmya.	68	34	..	171·59	29·97	...	45	40	5	53·00	21,095	252	31	4	832
Ma-ubin ...	..	...	...	...	...	...	30	30	10	66·61	22,162	...	..	...	...
Pyapôn ...	...	...	...	...	...	...	57	43	6	24·60	14,162	1,961	132	64	12,143
Toungoo ...	...	...	...	...	...	...	37	28	4	59·00	20,350	..	...	...	...
Thatôn ...	9	13	...	1,206·00	1,286·00	...	78	78	4	119·00	29,148	59	59	...	154
Amherst ...	41	33	...	41·00	40·00	...	42	41*	12	51·00	12,983	...	...	...	...
Tavoy ...	66	66	3	303·00	303·00	14	21	17	7	15·00	6,828	72	40	...	253
Mergui ...	...	...	...	...	...	...	20	20	6	18·00	4,116	...	...	...	...
Thayetmyo	...	...	...	...	...	...	44	42	14	57·46	11,446	248	...	..	321
Pakôkku ...	98	73	15	182·00	140·00	18	242	114	28	4·96	1,988	16,851	9,012	363	34,158
Minbu ...	...	...	...	...	...	...	44	44	17	58·10	19,421	906	77	...	1,897
Magwe ...	...	...	...	...	...	...	36	19	...	9·00	4,989	2,438	1,003	685	3,108
Mandalay	3	2	...	3·00	2·00	...	57	46	9	36·58	13,087	...	...	...	...
Katha ...	43	4	...	11·47	4·51	...	40	40	18	40·53	12,842	370	4	25	378
Shwebo ...	20	20	...	160·00	160·00	...	152	71	14	40·00	20,660	539	81	127	1,512
Sagaing ...	18	17	...	2·58	2·52	...	47	29	13	49·63	18,360	6,556	1,610	502	22,342
Lower Chindwin.	...	...	...	...	...	...	19	13	10	11·27	6,012	3,833	654	188	8,936
Upper Chindwin	...	...	...	...	...	...	26	4	...	1·21	655	2,111	834	752	2,146
Kyauksè ...	...	...	...	...	...	...	14	14	...	10·48	6,129	..	...	...	...
Meiktila ...	...	...	..	...	...	...	38	38	12	17·09	8,767	...	...	...	...
Yamèthin ...	108	...	...	60·30	...	...	81	81	9	42·94	20,895	959	253	...	2,034
Myingyan ...	..	...	...	...	...	...	23	21	11	18·05	8,267	9,810	3,774	754	34,930
TOTAL FOR 1914-15.	913	430	188	2,304·03	2,024·28	39	1,900	1,189	319	1,201·30	446,894	66,203	19,841	3,475	184,439
TOTAL FOR 1913-14.	2,034	884	152	3,431·21	3,803·30	709·49	2,016	1,020	323	1,022·74	466,083	80,217	20,598	1,687	225,647

* Includes two *kwins* surveyed in unsettled area.

STATEMENT XI.—*Statistics relating to Government Survey Schools for the year* 1914-15—(Paragraph 20).

District.	Daily average number of pupils on the rolls.	Number of days the school was in session.	Average number of days each pupil received tuition.	Number of pupils on the rolls on the 31st March.			Total income for the year.	Total expenditure for the year.					Number of pupils presented at the last examination in					
													Surveying.		Arithmetic.		Revenue law.	
				Pupils paying fees.	Free pupils.	Total.		On Establishment.	On Scholarships.	On bonuses.	On other contingencies.	Total.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.
1	2	3	4	5	6	7	8.	9	10	11	12	13	14	15	16	17	18	19
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.						
Akyab ...	9	254	188	8	...	8	120	1,104	412	47	309	1,872	8	5	7	6	7	2
Kyaukpyu...	11	252	207	8	2	10	119	744	785	39	279	1,847	10	9	10	10	9	8
Insein ...	27	267	235	7	17	24	346	1,152	1,720	165	186	3,223	23	17	22	20	21	10
Pegu ...	13	269	238	8	6	14	188	1,008	720	75	166	1,969	14	7	13	8	13	8
Bassein ...	24	267	189	17	5	22	543	956	1,049	63	376	2,444	22	13	21	17	21	5
Henzada ...	10	265	181	5	...	5	198	1,104	568	27	240	1,939	4	2	4	2	4	...
Ma-ubin ...	16	273	269	4	9	13	240	1,104	840	121	197	2,262	18	16	15	11	12	4
Toungoo ...	10	260	247	4	4	8	162	995	480	34	56	1,565	4	4	5	5	6	6
Amherst ...	11	260	202	13	...	13	298	1,104	678	106	499	2,387	13	11	13	11	11	10
Mergui ...	7	234	115	7	1	8	186	1,104	863	84	359	2,410	7	6	5	4	5	2
Pakôkku ...	14	263	230	12	5	17	153	956	1,034	101	38	2,129	17	11	13	12	13	5
Minbu ...	20	261	260	5	13	18	147	1,104	1,066	102	161	2,433	18	9	18	9	18	15
Mandalay ...	16	266	258	8	7	15	135	1,104	720	90	113	2,027	15	12	15	14	15	13
Katha ...	7	257	122	6	...	6	85	1,198	774	60	49	2,081	5	5	5	5	4	4
Shwebo ...	27	273	202	8	19	27	97	1,284	1,177	179	89	2,729	27	26	27	27	27	26
Lower Chindwin.	28	232	229	9	6	15	88	1,049	480	93	64	1,686	15	9	14	11	14	9
Meiktila ...	12	264	262	9	...	9	135	864	1,109	55	22	2,050	9	7	6	4	8	4
Yamèthin ...	23	259	256	7	12	19	121	878	807	124	82	1,891	19	14	17	12	17	9
Total for 1914-15.	285	259	216	145	106	251	3,361	18,812	15,282	1,565	3,285	38,944	248	183	230	188	225	140
Total for 1913-14.	263	257	223	156	98	254	3,267	18,616	14,930	1,498	3,158	38,202	257	111	241	138	247	178

G. B. C. P. O.—No. 136, C. S. & L. R., 5-10-1915—317—J. A. P.


LOWER BURMA.
Divisions.
Districts.
Arakan
Akyab
Northern Arakan
Kyaukpyu
Sandoway
Pegu
Rangoon Town
Insein
Hanthawaddy
Thaton
Pegu
Prome
Irrawaddy
Bassein
Henzada
Myaungmya
Ma-ubin
Pyapon
Tenasserim
Thatôn
Salween
Amherst
Tavoy
Mergui
UPPER BURMA.
Magwe
Thayetmyo
Pakokku
Minbu
Magwe
Mandalay
Mandalay
Shwebo
Myitkyina
Katha
Ruby Mines
Sagaing
Sagaing
Lower Chindwin
Upper Chindwin
Meiktila
Kyaukse
Meiktila
Yamethin
Myingyan
Map
OF
BURMA
SHOWING
TRACTS UNDER
SUPPLEMENTARY SURVEY, 1914-15.
Scale : 1 inch = 64 miles.
REFERENCE.
Boundary of province
Boundary of division
Boundary of district
Boundary of Shan States
Headquarters of districts
Area under Supplementary Survey provisionally
Area brought under new Settlement
Area brought under Supplementary Survey for
year
Land washed away by the Sea
Land cleared during the Five Years Survey 1914-15
Accretion area from 1913-14 to 1914-15
GULF OF SIAM

00133920

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on 01 February, 2020